

S3-Leitlinie: Lagerungstherapie und Frühmobilisation von kritisch Erkrankten

Leitlinienreport zur Fassung V3.1 vom 14.07.2024

Schlüsselwörter (Deutsch): Lagerungstherapie, Bauchlagerung, Frühmobilisation, kritisch Erkrankte, Intensivmedizin

Keywords (Englisch): Positioning therapy, proning, early mobilisation, critically ill patients, critical care

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Inhaltsverzeichnis

HERAUSGEBENDE	1
LEITLINIENKOORDINATION	1
FEDERFÜHRENDE FACHGESELLSCHAFT	1
FEDERFÜHRENDE FACHGESELLSCHAFT (MANDATSTRÄGER)	1
BETEILIGTE FACHGESELLSCHAFTEN/ORGANISATIONEN (MANDATSTRÄGER):	2
PATIENTENVERTRETER	2
METHODISCHE BERATUNG	2
INHALTSVERZEICHNIS	3
1 GELTUNGSBEREICH UND ZIEL DER LEITLINIE	4
2 ZUSAMMENSETZUNG DER LEITLINIENGRUPPE: BETEILIGUNG VON INTERESSENSGRUPPEN	5
3 GENAUIGKEIT DER LEITLINIENENTWICKLUNG	6
3.1 VORBEREITUNG DER S3-LEITLINIE	6
3.2 LITERATURRECHERCHE	7
3.2.1 Einschluss- und Ausschlusskriterien	7
3.2.2 Suchstrategie	7
3.2.3 Studienauswahl.....	8
3.3 QUALITÄTSASSESSMENT	11
3.4 ZUSAMMENFÜHRUNG DER LITERATUR	11
3.5 ERGEBNISSE SYSTEMATISCHE LITERATURRECHERCHE	11
3.5.1 Systematische Literaturrecherche für die Leitlinienversion 3.0 vom 25.07.2023.....	11
3.5.2 Literaturupdate für das Amendment Version 3.1. vom 14.07.2024	13
3.6 KONSENSFINDUNG IM DELPHI-VERFAHREN	13
3.6.1 Konsensfindung für die Leitlinienversion 3.0 vom 25.07.2023.....	13
3.6.2 Konsensfindung für das Amendment Version 3.1. vom 14.07.2024	14
4 EXTERNE BEGUTACHTUNG UND VERABSCHIEDUNG	15
5 REDAKTIONELLE UNABHÄNGIGKEIT	15
6 VERBREITUNG UND IMPLEMENTIERUNG.....	16
7 GÜLTIGKEITSDAUER UND AKTUALISIERUNGSVERFAHREN	17
8 ANHANG	18
8.1 PROJEKTMITARBEITENDE	18
8.2 SUCHSTRATEGIEN DATENBANKEN	19
8.3 ERGEBNISSE DES RISK OF BIAS ASSESSMENTS	25
8.3.1 Risk of Bias – Leitlinien (Agree-II).....	25
8.3.2 Risk of Bias – Systematische Reviews (Robis).....	26
8.3.3 Risk of Bias – Randomisiert kontrollierte Studien (RoB-2)	30
8.4 LOE-ANPASSUNGEN	31
9 LITERATURVERZEICHNIS	62

1 Geltungsbereich und Ziel der Leitlinie

Die Mobilisation kritisch Erkrankter auf der Intensivstation ist ein essenzieller Behandlungspfad der heutigen Intensivmedizin. Seit der letzten Veröffentlichung der S2e-Leitlinie: „Lagerungstherapie und Frühmobilisation zur Prophylaxe oder Therapie von pulmonalen Funktionsstörungen“ haben sich neue Behandlungsprinzipien etabliert. Zudem gibt es seit der letzten Aktualisierung in vielen Bereichen der Lagerungs- und Frühmobilisationstherapie neue Evidenz. Hieraus ergibt sich die Notwendigkeit der Überarbeitung der derzeit geltenden Empfehlungen unter Erfüllung der Relevanzkriterien für Leitlinien (1).

Ziel der aktuellen S3 Leitlinie war die Überarbeitung und Erweiterung der derzeit gültigen S2e-Leitlinie: „Lagerungstherapie und Frühmobilisation zur Prophylaxe oder Therapie von pulmonalen Funktionsstörungen“ auf den aktuellen Forschungsstand. Dabei soll die aktuelle Version mit dem Titel „Lagerungstherapie und Mobilisation von kritisch Erkrankten auf Intensivstationen“ eine möglichst hohe Qualität und Sicherheit in Bezug auf die Lagerungs- und Mobilisierungstherapie gewährleisten und Empfehlungen aussprechen, die sich prognostisch positiv auf die Mortalität, Funktionalität, Lebensqualität, Kognition, Sicherheit, Beatmungsdauer und/oder die Intensiv- sowie Krankenhausaufenthaltsdauer auswirken.

Die Leitlinie richtet sich an alle Mitglieder des interdisziplinären Teams auf einer Intensivstation, die in die Behandlung und Therapie von kritisch kranken Patient:innen involviert sind. Dies schließt sowohl Ärztinnen und Ärzte, Physiotherapeut:innen, Gesundheits- und Krankenpfleger:innen, als auch Ergotherapeut:innen und ggf. weitere Berufsgruppen mit ein, die an der Lagerungs- und Mobilisationstherapie der Patient:innen beteiligt sind. Die Empfehlungen der S3-Leitlinie dienen dabei als Leitpfaden zur Lagerungstherapie und Mobilisation auf Intensivstationen, basierend auf dem aktuellen Forschungsstand.

Die derzeitige Version ist für alle Erwachsenen, kritisch kranken Patient:innen (≥ 18 Jahre), die auf einer Intensivstation behandelt werden, gültig.

2 Zusammensetzung der Leitliniengruppe: Beteiligung von Interessensgruppen

Leitlinienkoordination

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Die Projektkoordination umfasst die Koordination der Projektgruppe, methodische Betreuung, systematische Literaturrecherche, Literaturbeschaffung, Verwaltung der Daten, strukturelle und redaktionelle Vereinheitlichung der Leitlinientexte und Organisation der Leitlinientreffen.

Folgende Fachgesellschaften oder Interessenvertreter-Gruppen waren an der Erstellung der Leitlinie beteiligt

Federführende Fachgesellschaft (Mandatsträger:innen)

Deutsche Gesellschaft für Anästhesiologie und Intensivmedizin (DGAI): Bein, Thomas; Blobner, Manfred; Coldewey, Sina M. (stimmberechtigt für die Fachgesellschaft); Grunow, Julius; Lewald, Heidrun; Schaller, Stefan J.; Scheffenbichler, Flora T; Weber-Carstens, Steffen; Wrigge, Hermann

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Patientenvertreter:in

Global Sepsis Alliance: Kredler, Dennis

Projektmitarbeitende

Projektmitarbeitende sind im Anhang 8.1 gelistet.

3 Genauigkeit der Leitlinienentwicklung

3.1 Vorbereitung der S3-Leitlinie

Vor Beginn der systematischen Literaturrecherche wurden die zu behandelnden Themen von den Leitlinienmitgliedern in einem gemeinsamen Konsens neu priorisiert, um einzelne Kapitel erweitert und klinisch relevante Fragestellungen zur Priorisierung der Endpunkte festgelegt (Tabelle 1). Die a priori festgelegten PICO-Kriterien (Patient, Intervention, Control, Outcome) dienten dabei der thematischen Eingrenzung der gezielten systematischen Literaturrecherche.

Tabelle 1. Konsentierte PICO-Kriterien der S3-Leitlinie

P	Kritisch kranke erwachsene Patient:innen, die auf einer Intensivstation behandelt werden	
I	1.	Bauchlage
	2.	Kontinuierliche laterale Rotationstherapie
	3.	Seitenlagerung
	4.	Oberkörperhochlagerung
	5.	Frühmobilisation (≤ 72 Stunden nach Aufnahme auf die Intensivstation)
	6.	Mobilisation (> 72 Stunden nach Aufnahme auf die Intensivstation)
	7.	Neuromuskuläre Stimulation
	8.	Bettfahrrad
	9.	Laufband
	10.	Robotik
C	1.	Bettruhe
	2.	Standardtherapie
	3.	Mobilisation (für Intervention 5, 7-10)
O	1.	Mortalität
	2.	Funktionalität
	3.	Lebensqualität
	4.	Kognition / Delir
	5.	Sicherheit

	6.	Beatmungsdauer
	7.	Intensivaufenthaltsdauer
	8.	Krankenhausaufenthaltsdauer

3.2 Literaturrecherche

3.2.1 Einschluss- und Ausschlusskriterien

Als Grundlage für die Einschluss- und Ausschlusskriterien diente die S2e-Leitlinie: „Lagerungstherapie und Frühmobilisation zur Prophylaxe oder Therapie von pulmonalen Funktionsstörungen“. Eingeschlossen in das Update der systematischen Suche wurden alle Studien im Zeitraum von Januar 2014 bis Juni 2022, die den PICO-Kriterien (Tabelle 1) entsprachen, sowie die Studien bis 2014, welche in der alten S2e Leitlinie enthalten waren. In Bezug auf das Studiendesign wurden nur Case Reports, narrative Reviews, Editorials und Korrespondenz (Letters) ausgeschlossen. Die Population von Interesse waren erwachsene (≥ 18 Jahre) kritisch Erkrankte, die auf einer Intensivstation behandelt werden. Betrachtete Interventionen bezogen sich auf die Bauchlage, kontinuierliche laterale Rotationstherapie, Seitenlagerung, Oberkörperhochlagerung, Frühmobilisation, Mobilisation, neuromuskuläre Stimulation, Bettfahrrad, Laufband und Robotik. Als Kontrolle musste entweder Bettruhe, Standardtherapie oder eine Mobilisation angegeben sein, welche sich in Art, Dauer, Frequenz oder Initiationszeitpunkt unterschied. Betrachtete Endpunkte waren Mortalität, Funktionalität, Lebensqualität, Kognition, Delir, Sicherheit, Beatmungsdauer und/oder Intensiv- und Krankenhausaufenthaltsdauer. Erfüllten die Studien eines der vier PICO-Kriterien nicht, wurden sie in der systematischen Suche und Evidenzbewertung ausgeschlossen. In einem Amendment der Leitlinie (Version 3.1. vom 14.07.2024) wurde ein neuerliches Literaturupdate bis zum April 2024 vorgenommen, jedoch beschränkt auf Leitlinien, Systematische Reviews $\pm$ Metaanalysen und randomisiert, kontrollierte Studien (RCTs).

3.2.2 Suchstrategie

Folgende elektronische Datenbanken wurden für die systematische Literaturrecherche verwendet:

- PubMed Central®
- PEDro (Physiotherapy Evidence Database)
- CINAHL (Cumulative Index to Nursing and Allied Health Literature)
- Cochrane Library

Die detaillierte Suchstrategie der einzelnen Datenbanken ist dem Anhang 8.2 zu entnehmen.

3.2.3 Studienauswahl

Zwei Bewerter:innen überprüften bei allen Studien aus der systematischen Literatursuche den Titel und das Abstract unabhängig voneinander in Bezug auf die PICO-Kriterien. Die Überprüfung erfolgte mit dem Online-Programm Rayyan (2). Jede Studie erhielt zwei unabhängige und verblindete Bewertungen in Bezug auf die Einschluss- und Ausschlusskriterien. Wurden Studien von beiden Bewerter:innen eingeschlossen, gingen diese in die Volltextanalyse mit ein. Bei Konflikten (Studie von einem/einer Bewerter:in eingeschlossen und einem/einer anderen Bewerter:in ausgeschlossen) erfolgte die Endbewertung von einer dritten unabhängigen Person. Duplikate wurden bei Übereinstimmung der Studien entfernt.

Die anschließende Volltextanalyse wurde nach demselben Prinzip (zwei Bewerter:innen, bei Konflikt dritte:r Bewerter:in) durchgeführt.

Anschließend erfolgte die Aufarbeitung der eingeschlossenen Volltexte anhand einer Evidenztabelle der Arbeitsgemeinschaft der Wissenschaftlichen Medizinischen Fachgesellschaften (AWMF) (Abbildung 1). Diese wurden thematisch auf die oben angegebenen Schwerpunktthemen aufgeteilt und als Arbeitspakete den jeweiligen Experten der Leitliniengruppe zugeordnet. Evidenztabellen wurden dann erstellt, wenn die Studien ein Evidenzlevel (engl. Level of Evidenz, kurz: LoE) von 1 oder 2 hatten, es keine Studien mit einem Evidenzniveau von 1 oder 2 zu einer definierten klinischen Fragestellung gab oder die Studien eine klinische Relevanz aufwiesen. Bei der Bearbeitung wurden jeweils Autorennamen, Veröffentlichungszeitpunkt, PubMed-ID, Studiendesign, Ein- sowie Ausschlusskriterien, Anzahl der Studienteilnehmer:innen, jeweils nach Interventions- und Kontrollgruppe separat, Anzahl der ausgeschlossenen Patient:innen mit Begründung, die beschriebene Intervention, sowie auch Kontrolle, die optimale Studienpopulationsgröße, sofern angegeben, die primären Endpunkte, die Ergebnisse und das Evidenzlevel aufgeführt. Bei systematischen Reviews erfolgte ebenfalls die Angabe der eingeschlossenen Arbeiten. Die in den systematischen Reviews eingeschlossenen Studien wurden anschließend ebenfalls in Bezug auf die PICO-Kriterien hin überprüft und gegebenenfalls mit in die Volltextanalyse aufgenommen. Gleiches galt ebenfalls für Studien, die sich über die systematische Literaturrecherche hinaus als relevant gezeigt haben.

Die Kontrolle der Evidenztabelle erfolgte nach Erstellung ebenfalls durch eine zweite Person. Das Evidenzlevel wurde für jede Studie anhand des Oxford Centre of Evidence-Based Medicine Level of Evidenz-Dokumentes (Version 2011) festgelegt (Abbildung 2). Dabei konnten die Studien bei einem Bias-Risiko, Inkonsistenz, Indirektheit, fehlende Präzision und einem Publikationsbias um 1-2 Evidenz-Stufen herabgestuft und bei großem Effekt, Dosis-Wirkungsbeziehung und bei positiv assoziierten Confoundern um ein bis zwei Evidenz-Stufen heraufgestuft werden.

Reference, Study Type	Cases and Controls (Participant #, characteristics)		Drop-out Rate	Intervention	Control	Optimal Population	Primary Results	Evidence Grade
	Total							
Autor*in und Jahr (Ref.Nr.) ggf. Link zur Publikation Spezifikation der Studie: RCT, Kohortenstudie, Fall-Kontroll-Studie, etc.	Anzahl aller Patient*innen in der Studie (Ein- und Ausschlusskriterien, Unterschiede zwischen den Gruppen (z.B. eingeschlossene und ausgewertete Gruppe), Anzahl rekrutierter und/oder ausgewerteter Patienten*innen (pro Gruppe oder ITT)		Angabe insgesamt und/ oder pro Gruppe (absolute Zahlen und/oder Prozent-angabe	Details der Intervention für jede Gruppe (Dosis, Zeitraum, etc.)	Details der Kontroll- gruppe (Dosis, Zeitraum, etc.)	Angabe der primären Zielgröße (gewöhnlich die auf die die Fallzahlkalkulatio n basiert) und sekundäre Zielgröße(n) (vom/von Autor*in angegeben)	Ergebnisse der <u>primären</u> und <u>sekundären</u> Zielgrößen: Effektstärke und Präzision (absolute Zahlen, Mittelwert oder Prozent- angaben, p-Wert, Konfidenz- intervalle) Angaben <u>unerwünschter Ereignisse</u> insgesamt und/oder pro Gruppe	Angaben auffälliger positiver und/oder negative Aspekte hinsichtlich Studiendesign, Durchführung und Auswertung (z.B. unangemessene Hypothese, fehlende Verblindung bei RCT, inadäquate statistische Verfahren
	Per Branch							
	Anzahl der Patient*innen in der Interventionsgrup pe	Anzahl der Patient*innen in der Kontrollgruppe						

Abbildung 1. Musterevidenztabelle der AWMF (3)

Question	Step 1 (Level 1*)	Step 2 (Level 2*)	Step 3 (Level 3*)	Step 4 (Level 4*)	Step 5 (Level 5)
How common is the problem?	Local and current random sample surveys (or censuses)	Systematic review of surveys that allow matching to local circumstances**	Local non-random sample**	Case-series**	n/a
Is this diagnostic or monitoring test accurate? (Diagnosis)	Systematic review of cross sectional studies with consistently applied reference standard and blinding	Individual cross sectional studies with consistently applied reference standard and blinding	Non-consecutive studies, or studies without consistently applied reference standards**	Case-control studies, or "poor or non-independent reference standard**	Mechanism-based reasoning
What will happen if we do not add a therapy? (Prognosis)	Systematic review of inception cohort studies	Inception cohort studies	Cohort study or control arm of randomized trial*	Case-series or case-control studies, or poor quality prognostic cohort study**	n/a
Does this intervention help? (Treatment Benefits)	Systematic review of randomized trials or <i>n</i> -of-1 trials	Randomized trial or observational study with dramatic effect	Non-randomized controlled cohort/follow-up study**	Case-series, case-control studies, or historically controlled studies**	Mechanism-based reasoning
What are the COMMON harms? (Treatment Harms)	Systematic review of randomized trials, systematic review of nested case-control studies, <i>n</i> -of-1 trial with the patient you are raising the question about, or observational study with dramatic effect	Individual randomized trial or (exceptionally) observational study with dramatic effect	Non-randomized controlled cohort/follow-up study (post-marketing surveillance) provided there are sufficient numbers to rule out a common harm. (For long-term harms the duration of follow-up must be sufficient.)**	Case-series, case-control, or historically controlled studies**	Mechanism-based reasoning
What are the RARE harms? (Treatment Harms)	Systematic review of randomized trials or <i>n</i> -of-1 trial	Randomized trial or (exceptionally) observational study with dramatic effect			
Is this (early detection) test worthwhile? (Screening)	Systematic review of randomized trials	Randomized trial	Non-randomized controlled cohort/follow-up study**	Case-series, case-control, or historically controlled studies**	Mechanism-based reasoning

* Level may be graded down on the basis of study quality, imprecision, indirectness (study PICO does not match questions PICO), because of inconsistency between studies, or because the absolute effect size is very small; Level may be graded up if there is a large or very large effect size.

** As always, a systematic review is generally better than an individual study.

Abbildung 2. Oxford Centre for Evidence-Based Medicine 2011 Levels of Evidence (4)

3.3 Qualitätsassessment

Das Bias-Risiko für randomisierte kontrollierte Studien wurde anhand des Cochrane Risk of Bias Tools (RoB2) verifiziert (5). Hierbei wurden der Randomisierungsprozess, die Abweichungen von den geplanten Interventionen, fehlende Ergebnisse, die Ergebnismessungen und die Auswahl der berichteten Ergebnisse bewertet und der Bias der Studie beurteilt. Dies erfolgte für jede Studie ebenfalls von zwei unabhängigen Bewerter:innen. Bei Konflikten wurde die endgültige Gesamtverzerrung von einer dritten Person festgelegt.

Für systematische Reviews wurde das Robis-Tool verwendet (6). Dieses beinhaltet vier zu bewertende Domänen: [1] Kriterien für den Studieneinschluss, [2] Identifikation und Auswahl der Studien, [3] Datenerhebung und Bewertung der Studien, [4] Zusammenfassung und Ergebnisse. Anschließend wurde das Gesamtrisiko für die Studie festgelegt.

Bestehende Leitlinien, die Empfehlungen für Lagerungs- und/oder Mobilisationstherapien schilderten, wurden anhand des Agree-2-Tools bewertet (7). Dieses umfasst sechs zu bewertende Domänen: [1] Umfang und Zweck, [2] Einbindung von Interessenvertretern, [3] Entwicklungsprozess, [4] Klarheit der Präsentation, [5] Anwendbarkeit, und [6] Unabhängigkeit der Teilnehmer:innen.

Die Ergebnisse der Bias-Bewertungen sind den Anhängen 8.3.1 – 8.3.3 zu entnehmen.

3.4 Zusammenführung der Literatur

Nach Bearbeitung aller eingeschlossenen Volltexte erfolgte die Zusammenführung der Ergebnisse in einer Exceltabelle (Microsoft Corporation, Redmond, WA) mit Auflistung der jeweiligen Studie, dem möglichen Ausschlussgrund der Studie, dem initialen LoE nach Volltextbewertung, dem Gesamt-Bias und dem finalen LoE unter Einbeziehung der oben genannten Herab- und Heraufstufungskriterien (siehe Anhang 8.4).

Für das anschließende Delphi-Verfahren wurden die Empfehlungen anhand der eingeschlossenen Studien und deren LoE für die jeweiligen Kapitel formuliert. Dabei erfolgte die Gegenüberstellung der Empfehlungen aus der S2e-Leitlinie: „Lagerungstherapie und Frühmobilisation zur Prophylaxe oder Therapie von pulmonalen Funktionsstörungen“ (8) mit den sich aus der Literaturrecherche neu ergebenden Empfehlungen. Bei ausreichender Evidenzstärke der jeweiligen Studien (LoE 1 oder 2) wurden Studien mit einem niedrigeren Evidenzniveau nur bei klinischer Relevanz mit in die Empfehlung einbezogen.

3.5 Ergebnisse systematische Literaturrecherche

3.5.1 Systematische Literaturrecherche für die Leitlinienversion 3.0 vom 25.07.2023

Die systematische Literaturrecherche erbrachte insgesamt 14258 Studien (Abbildung 3). Dabei wurde zu zwei Zeitpunkten eine Suche durchgeführt. Der erste Zeitraum erstreckte sich von 1.1.2014 bis 31.05.2021. Hierauf entfielen insgesamt 10299 Studien, 9770 wurden ausgeschlossen (275 Duplikate, 9495 Studien waren nicht PICO-konform). Nach Beendigung der Bearbeitung aller Studien wurde ein Update der systematischen Literaturrecherche durchgeführt, um nachfolgend veröffentlichte Studien

ebenfalls zu erfassen. Dieser erstreckte sich von 01.01.2021 bis 07.06.2022. Es ergaben sich hieraus 3959 Studien, von denen 3738 ausgeschlossen wurden (67 Duplikate, 3671 Studien waren nicht PICO-konform). Insgesamt wurden nach Durchsicht der Titel und Abstracts 750 Studien aus der systematischen Literaturrecherche in die Volltextanalyse aufgenommen. Zusätzlich wurden insgesamt 429 weitere Studien (Studien aus vorangegangener Leitlinie sowie manuell identifizierte Studien) in die Volltextanalyse mit aufgenommen.

Nach Sichtung der Volltexte wurden insgesamt 733 Studien ausgeschlossen und zu 446 Studien Evidenztabelle erstellt.

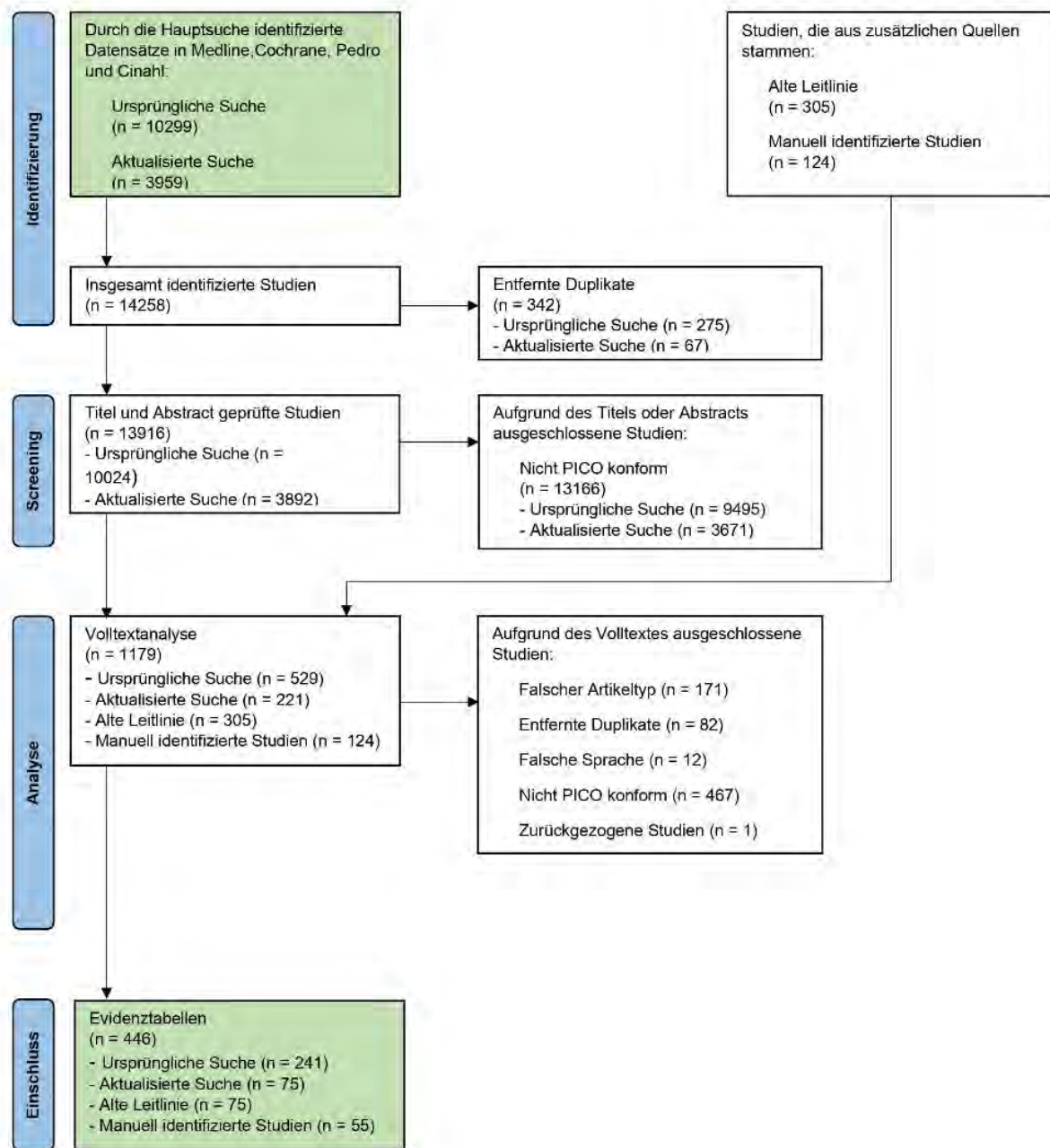


Abbildung 3. Flussdiagramm für die Literaturrecherche (9) der Version 3.0 vom 25.07.2023

3.5.2 Literaturupdate für das Amendment Version 3.1. vom 14.07.2024

Im Rahmen der erneuten Literatursuche vom April 2024 wurden insgesamt 687 Studien identifiziert, eingeschränkt auf Leitlinien, Systematische Reviews ± Metaanalysen und RCTs, wovon 61 Studien eingeschlossen wurden (Abbildung 4).

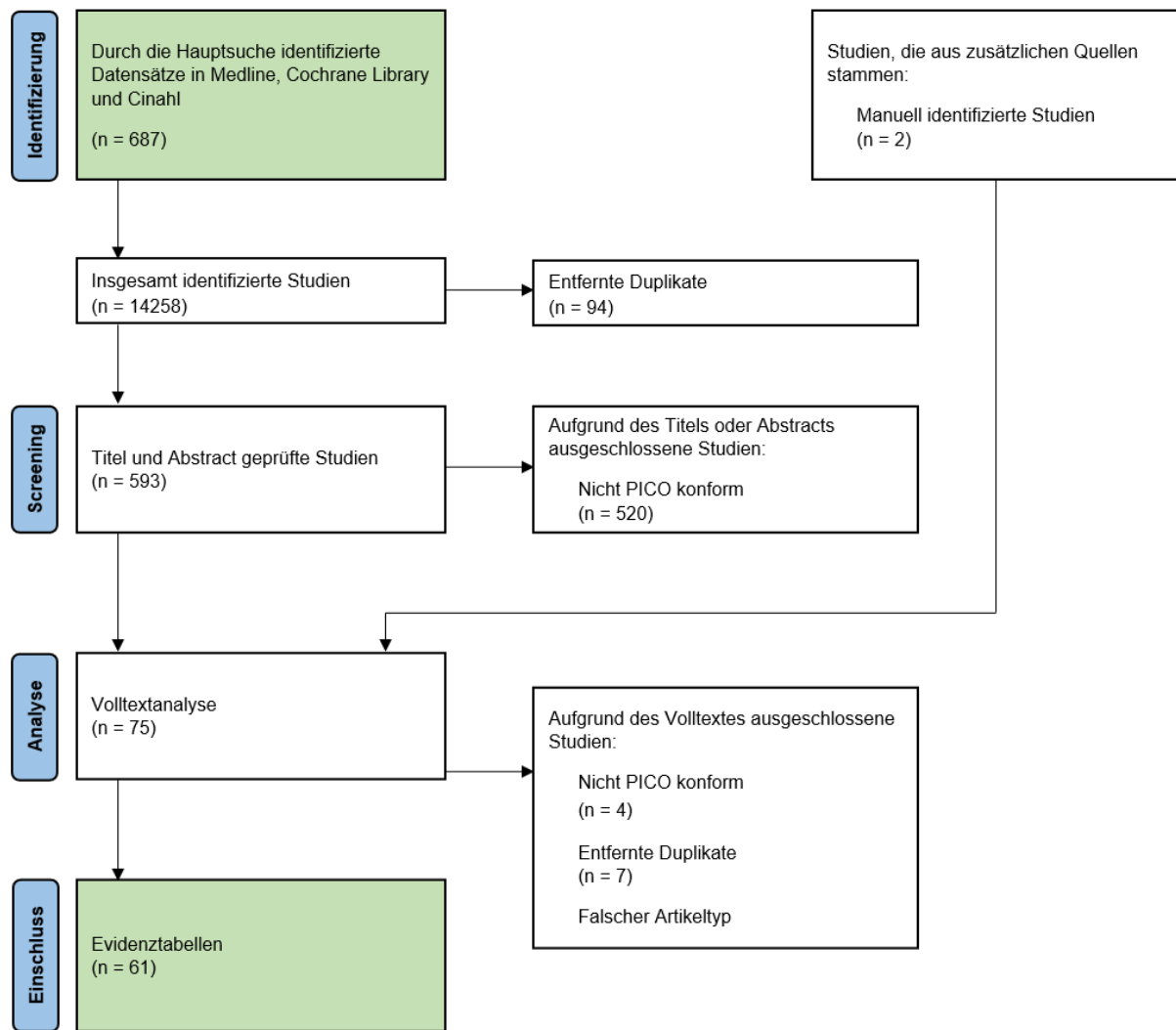


Abbildung 4. Flussdiagramm für das Literaturupdate

3.6 Konsensfindung im Delphi-Verfahren

3.6.1 Konsensfindung für die Leitlinienversion 3.0 vom 25.07.2023

Das Delphi-Verfahren unterteilte sich in drei Abstimmungsrunden. Die jeweiligen Abstimmungsmöglichkeiten waren dabei dieselben. Allen Leitlinienmitgliedern wurde hierfür Zugriff auf alle Volltexte und die Evidenztabellen online ermöglicht und ein personalisierter Internetlink von Survey-Monkey (Momentive Inc., San Mateo, California, USA) für die Abstimmung zugesendet. Es wurden die Empfehlungsvorschläge mit der jeweiligen Literatur dargestellt und zur Abstimmung gebracht.

Das Abstimmungsrecht der Mitglieder bezog sich auf die jeweiligen Interessenkonflikte. Bei keinen Interessenkonflikten konnten die Mitglieder sowohl die Empfehlung und das angegebene Evidenzlevel kommentieren, als auch für diese abstimmen. Bei geringen oder moderaten Interessenkonflikten war lediglich eine Kommentarsetzung zu der Empfehlung und Evidenzlevel möglich. Bei hohen Interessenkonflikten war darüber hinaus auch die Kommentarsetzung nicht gestattet. Fehlende relevante Literatur konnte darüber hinaus ergänzt werden.

Anschließend konnten die Leitlinienmitglieder auf Grundlage der aufgestellten Empfehlungen einen Empfehlungsgrad, sowie ein Evidenzlevel angeben.

Die Ergebnisse aus dem ersten Delphi-Verfahren wurden daraufhin aufgearbeitet und in einer Leitliniensitzung diskutiert. Danach erfolgte ein zweites Online-Delphi-Verfahren. Vor den Konsensuskonferenzen erfolgte schlussendlich eine dritte Abstimmung. In der darauffolgenden finalen hybriden, moderierten Konsensuskonferenz wurden all jene Empfehlungen, die nicht 100% Zustimmung erhalten hatten oder zu denen es noch Diskussionsbedarf gab, erneut diskutiert und zur Abstimmung gebracht.

Die Empfehlungsgrade wurden nach GRADE (10) wie in Tabelle 2 angegeben. Eine Empfehlung galt als angenommen, wenn > 75% Zustimmung existierte (Klassifikation „Konsens“). Bei einer Zustimmung > 95% geht man von einem starken Konsens aus.

Tabelle 2. Zweistufiges Schema zur Graduierung von Empfehlungen nach GRADE (10)

Empfehlungsgrad	Beschreibung	Ausdrucksweise
1	Starke Empfehlung	Wir empfehlen/ empfehlen nicht
2	Empfehlung	Wir schlagen vor/ schlagen nicht vor

3.6.2 Konsensfindung für das Amendment Version 3.1. vom 14.07.2024

Es wurde ein Online-Delphi-Verfahren vom 30.6.2024 bis 13.07.2024 mittels Vevox.app (<https://vevox.app/#/>) durchgeführt nach den gleichen Prinzipien wie zuvor durchgeführt.

4 Externe Begutachtung und Verabschiedung

Die Langversion der Leitlinie mit allen Empfehlungen, Evidenztabelle und dem Leitlinienreport wurde allen teilnehmenden Fachgesellschaften zur Prüfung, Kommentierung und Genehmigung durch das Präsidium oder den Vorstand vorgelegt und dort entsprechend genehmigt. Weitere Projektmitarbeitende sind dem Anhang 8.3 zu entnehmen.

5 Redaktionelle Unabhängigkeit

Die Angaben zu den Interessen wurden auf Grundlage der „Erklärung von Interessen und Umgang mit Interessenkonflikten bei Leitlinienvorhaben“ der AWMF (11) erhoben und von einer Arbeitsgruppe ohne Interessenkonflikte (Thomas Bein, Sina Coldewey und Flora Scheffenbichler) auf einen thematischen Bezug zur Leitlinie bewertet. Als geringer Interessenkonflikt wurde durch Industrie bezahlte Vortrags-/Schulungstätigkeit von 1-1000 Euro/anno; bezahlte Autorenschaft bis zu einer Geringfügigkeitsgrenze 1-1000 Euro/anno; Forschungsvorhaben (klinisch/präklinisch) mit Managementverantwortung (Projekt- oder Teilprojektleiter bei Förderung durch DFG, BMBF, Stiftung, Berufsverbände, Fachgesellschaften, intramural) kategorisiert. Als moderater Interessenkonflikt wurde durch Industrie bezahlte Vortrags-/Schulungstätigkeit von 1001-3000 Euro/anno; bezahlte Autorenschaft bis zu einer Geringfügigkeitsgrenze 1001-3000 Euro/anno; direkte finanzielle Interessen aus Berater-, Gutachter-, Vorstandstätigkeit; Tätigkeit in einem Firmenbeirat (Vertrieb von Produkten mit Bezug zur Leitlinie); Firmenaktienbesitz; Forschungsvorhaben (klinisch/präklinisch) mit Managementverantwortung (Projekt- oder Teilprojektleiter bei Förderung durch Industrie) kategorisiert. Als hoher Interessenkonflikt wurde von Firma bezahlte Vortrags-/Schulungstätigkeit von > 3000 Euro/anno; bezahlte Autorenschaft > 3000 Euro/anno; direkte finanzielle Interessen aus Berater-, Gutachter-, Firmenbeirat-, Vorstandstätigkeit > 3000 Euro/anno; Angestellter der Industrie; Inhaber von Patenten oder Urheberrechten; Firmenaktienbesitz > 5000 Euro kategorisiert. Ein moderater Interessenkonflikt hatte eine Stimmenthaltung zu dem Themenbereich zur Konsequenz. Ein hoher Interessenkonflikt führte zum Ausschluss von der Beratung und Abstimmung zum betreffenden Thema. Als protektive Faktoren, die einer Verzerrung durch Interessenkonflikte entgegenwirken, können die pluralistische Zusammensetzung der Leitliniengruppe, die Co-Koordination, das Delphi-Verfahren mit einer abschließenden strukturierten Konsensfindung unter neutraler Moderation, die Diskussion zu den Interessen und Umgang mit Interessenkonflikten zu Beginn der Konsenskonferenz und eine öffentliche Konsultationsfassung gewertet werden. Eine Teilfinanzierung der Leitlinie erfolgte durch die DGAI.

Der weitere Umgang in Bezug auf das Delphi-Verfahren und Interessenkonflikte ist dem Kapitel „3.5 Konsensfindung im Delphi-Verfahren“ zu entnehmen.

6 Verbreitung und Implementierung

Für die vorliegende Leitlinie ist eine Publikation in Form einer Kurzversion in einer medizinischen Fachzeitschrift geplant. Darüber hinaus wird die Leitlinie als Volltext und Kurzversion online über die Arbeitsgemeinschaft der Wissenschaftlichen Medizinischen Fachgesellschaften e.V. publiziert. Dies dient der Grundforderung der Implementierungsstrategie und der Möglichkeit der allgemeinen Zugänglichkeit und Verfügbarkeit.

Die anschließende Implementierung obliegt einer konsekutiven Umsetzung der Empfehlungen in den klinischen Alltag. Durch die Verfügbarkeit einer Kurzversion wird die praktische Implementierung erleichtert. Nach Ansicht der Expertengruppe gibt es keine wesentlichen organisatorischen und/oder finanziellen Barrieren gegenüber der Anwendung der Leitlinienempfehlungen.

Das Qualitätsziel der Leitlinie besteht darin, die neuen wissenschaftlichen Erkenntnisse in den routinemäßigen Alltag zu integrieren. Hierzu ist geplant, nach Implementierung der Leitlinie die Qualitätsziele durch geeignete wissenschaftliche Instrumente zu überprüfen, sowie im Rahmen von Audits die Einhaltung dieser Leitlinie zu evaluieren.

7 Gültigkeitsdauer und Aktualisierungsverfahren

Die letzte Überarbeitung der Leitlinie erfolgte am 14.07.2024 im Rahmen der Anpassungen durch das Amendment Version 3.1.

Die Leitlinie ist gültig bis 30.06.2027

Nach Ablauf dieses Zeitraums ist eine Aktualisierung der Leitlinie durch die Mitglieder der Expert:innengruppe geplant, wenn es gelingt Finanzierung dafür zu erhalten. Das Aktualisierungsverfahren beinhaltet eine Prüfung und Bewertung der Kernaussagen anhand der aktuellen verfügbaren Evidenz anhand einer systematischen Literaturrecherche durch die Redaktionsgruppe sowie die vollständige Umstellung der Bewertung von Oxford auf GRADE. Die überarbeiteten Kernaussagen werden im Rahmen des geplanten Aktualisierungsverfahrens veröffentlicht.

8 Anhang

8.1 Projektmitarbeitende

Mitarbeitende*r	Abstract-Bewertung	Volltext-beschaffung	Volltext-bewertung	Erstellung Evidenztabellen	Risk of Bias-Bewertung	Konsistenzprüfung Evidenztabellen	Konsistenzprüfung Dokumente	Sprachliche Korrektur Leitlinientext	Visuelle Überarbeitung Leitlinientext	Feedback zur Leitlinie
Josephin Meyer			X	X		X	X	X	X	X
Linus Warner			X	X		X	X	X	X	X
Alyona Buyukli	X	X	X	X	X	X	X	X	X	X
Nils Daum	X	X	X	X	X	X	X	X	X	X
Aline Grimm	X		X	X						
Annika Bald			X	X		X				
Clara Schellenberg	X		X	X	X					
Felix Baum	X		X	X					X	
Michael Verfuß	X		X	X		X			X	
Vanessa Arsene	X		X	X						
Wiebke Hollstein	X		X	X						
Niklas M. Carbon					X					
Maximilian Lindholz	X		X	X		X	X			
Nicolas Berg	X		X	X						
Markus Engelmann						X	X	X	X	X
Juliane Götze						X	X	X	X	X
Charles Neu						X	X	X	X	X

8.2 Suchstrategien Datenbanken

PubMed und Cochrane Library	Search #1 (Lagerung)	(„positioning“ [Title/Abstract] OR „prone position“ [Title/Abstract] OR „prone positioning“ [Title/Abstract] OR „pronation“ [Title/Abstract] OR „proning“ [Title/Abstract] OR „prone“ [Title/Abstract] OR „self-proning“ [Title/Abstract] OR „conscious proning“ [Title/Abstract] OR „conscious prone positioning“ [Title/Abstract] OR „proning in non-intubated“ [Title/Abstract] OR „PINI“ [Title/Abstract] OR „prone ventilation“ [Title/Abstract] OR „face down“ [Title/Abstract] OR „ventral position“ [Title/Abstract] OR „awake proning“ [Title/Abstract] OR „supine position“ [Title/Abstract] OR „supine positioning“ [Title/Abstract] OR „supination“ [Title/Abstract] OR „supine“ [Title/Abstract] OR „lateral position“ [Title/Abstract] OR „lateral positioning“ [Title/Abstract] OR „sitting position“ [Title/Abstract] OR „semisitting position“ [Title/Abstract] OR „horizontal position“ [Title/Abstract] OR „horizontal positioning“ [Title/Abstract] OR „semi-recumbent position“ [Title/Abstract] OR „rotation“ [Title/Abstract] OR „body position“ [Title/Abstract] OR „body positioning“ [Title/Abstract] OR „patient positioning“ [Title/Abstract] OR „positioning therapy“ [Title/Abstract] OR „kinetic therapy“ [Title/Abstract] OR „continuous lateral rotation“ [Title/Abstract] OR „continuous passive motion therapy“ [Title/Abstract] OR „backrest elevation“ [Title/Abstract] OR „axial position change“ [Title/Abstract] OR „body position change“ [Title/Abstract] OR „facedown position“ [Title/Abstract] OR „side position“ [Title/Abstract] OR „posture“ [Title/Abstract] OR „thorax angulation“ [Title/Abstract] OR „kinetics“ OR "prone position"[MeSH Terms] OR "pronation"[MeSH Terms] OR "supine position"[MeSH Terms] OR "supination"[MeSH Terms] OR "sitting position"[MeSH Terms] OR "rotation"[MeSH Terms] OR "patient positioning"[MeSH Terms] OR "posture"[MeSH Terms] OR "kinetics"[MeSH Terms])
	Search #2 (Mobilisierung)	(„mobilisation“ [Title/Abstract] OR „mobilization“ [Title/Abstract] OR „early mobilisation“ [Title/Abstract] OR „early mobilization“ [Title/Abstract] OR „early goal-directed mobilization“ [Title/Abstract] OR „early ambulation“ [Title/Abstract] OR „early exercise“ [Title/Abstract] OR „early activity“ [Title/Abstract] OR „early

activities“ [Title/Abstract] OR „early goal-directed therapy“ [Title/Abstract] OR „early goal-directed therapies“ [Title/Abstract] OR „accelerated ambulation“ [Title/Abstract] OR „occupational therapy“ [Title/Abstract] OR „occupational therapies“ [Title/Abstract] OR „occupational therapist“ [Title/Abstract] OR „physiotherapy“ [Title/Abstract] OR „physical therapy“ [Title/Abstract] OR „physical therapies“ [Title/Abstract] OR „physical therapist“ [Title/Abstract] OR „physical therapy modality“ [Title/Abstract] OR „physical therapy modalities“ [Title/Abstract] OR „physical fitness“ [Title/Abstract] OR „mobility therapy“ [Title/Abstract] OR „exercise therapy“ [Title/Abstract] OR „exercise therapies“ [Title/Abstract] OR „movement therapy“ [Title/Abstract] OR „movement therapies“ [Title/Abstract] OR „myofunctional therapy“ [Title/Abstract] OR „myofunctional therapies“ [Title/Abstract] OR „kinesiotherapy“ [Title/Abstract] OR „motion therapy“ [Title/Abstract] OR „mobility intervention“ [Title/Abstract] OR „motor activity“ [Title/Abstract] OR „motor activities“ [Title/Abstract] OR „rehabilitation“ [Title/Abstract] OR „muscle training“ [Title/Abstract] OR „muscle strength“ [Title/Abstract] OR „muscle strengthening“ [Title/Abstract] OR „musculoskeletal manipulations“ [Title/Abstract] OR „resistance training“ [Title/Abstract] OR „strength training“ [Title/Abstract] OR „endurance training“ [Title/Abstract] OR „fitness training“ [Title/Abstract] OR „high-intensity interval training“ [Title/Abstract] OR „physical conditioning“ [Title/Abstract] OR „physical medicine“ [Title/Abstract] OR „physical endurance“ [Title/Abstract] OR „physical strength“ [Title/Abstract] OR „walking“ [Title/Abstract] OR „exercise“ [Title/Abstract] OR „exercises“ [Title/Abstract] OR „exercising“ [Title/Abstract] OR „exercise tolerance“ [Title/Abstract] OR „functional status“ [Title/Abstract] OR „load bearing“ [Title/Abstract] OR „loadbearing“ [Title/Abstract] OR „weight bearing“ [Title/Abstract] OR „weightbearing“ [Title/Abstract] OR „locomotion“ [Title/Abstract] OR „locomotor activity“ [Title/Abstract] OR „locomotor activities“ [Title/Abstract] OR „muscle strength“ [Title/Abstract] OR „muscle strengthening“ [Title/Abstract] OR „recovery of function“ [Title/Abstract] OR „function recovery“ [Title/Abstract] OR „functional recoveries“ [Title/Abstract] OR „functional recovery“ [Title/Abstract] OR „functional training“ [Title/Abstract] OR „joint mobilization“ [Title/Abstract] OR „joint mobilization“ [Title/Abstract] OR „movement“ [Title/Abstract] OR „physical stimulation“ [Title/Abstract] OR „stimulation“ [Title/Abstract] OR „cycle“ [Title/Abstract] OR „cycling“ [Title/Abstract] OR „leg-cycle“ [Title/Abstract] OR „leg-cycling“

	[Title/Abstract] OR „bicycle“ [Title/Abstract] OR „bicycling“ [Title/Abstract] OR „in-bed cycling“ [Title/Abstract] OR „ergometer“ [Title/Abstract] OR „ergometry“ [Title/Abstract] OR „electrostimulation“ [Title/Abstract] OR „electric stimulation“ [Title/Abstract] OR „electrical stimulation“ [Title/Abstract] OR „electrotherapy“ [Title/Abstract] OR „electrotherapies“ [Title/Abstract] OR „electric stimulation therapy“ [Title/Abstract] OR „electrical stimulation therapy“ [Title/Abstract] OR „electrical stimulation therapies“ [Title/Abstract] OR „neuromuscular stimulation“ [Title/Abstract] OR „neuromuscular electric stimulation“ [Title/Abstract] OR „neuromuscular electrical stimulation“ [Title/Abstract] OR „transcutaneous electric stimulation“ [Title/Abstract] OR „transcutaneous electrical stimulation“ [Title/Abstract] OR „muscle stimulation“ [Title/Abstract] OR „muscular stimulation“ [Title/Abstract] OR „muscle excitation“ [Title/Abstract] OR „electromyostimulation“ [Title/Abstract] OR „functional electrical stimulation“ [Title/Abstract] OR „TENS“ [Title/Abstract] OR „NMES“ [Title/Abstract] OR „EMS“ [Title/Abstract] OR „FES“ [Title/Abstract] OR „assistive technology devices“ [Title/Abstract] OR "early ambulation"[MeSH Terms] OR "early goal-directed therapy"[MeSH Terms] OR "occupational therapy"[MeSH Terms] OR "physical therapy modalities"[MeSH Terms] OR "physical fitness"[MeSH Terms] OR "exercise therapy"[MeSH Terms] OR "myofunctional therapy"[MeSH Terms] OR "motor activity"[MeSH Terms] OR "rehabilitation"[MeSH Terms] OR "muscle strength"[MeSH Terms] OR "musculoskeletal manipulations"[MeSH Terms] OR "resistance training"[MeSH Terms] OR "endurance training"[MeSH Terms] OR "high-intensity interval training"[MeSH Terms] OR "physical endurance"[MeSH Terms] OR "walking"[MeSH Terms] OR "exercise"[MeSH Terms] OR "exercise tolerance"[MeSH Terms] OR "functional status"[MeSH Terms] OR "weight bearing"[MeSH Terms] OR "locomotion"[MeSH Terms] OR "muscle strength"[MeSH Terms] OR "recovery of function"[MeSH Terms] OR "movement"[MeSH Terms] OR "physical stimulation"[MeSH Terms] OR "bicycling"[MeSH Terms] OR "ergometry"[MeSH Terms] OR "electric stimulation"[MeSH Terms] OR "electric stimulation therapy"[MeSH Terms])
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	Search #3 (Critical Care und Publikationen >2014)	(„critically ill“ [Title/Abstract] OR „critical illness“ [Title/Abstract] OR “catastrophic illness“ [Title/Abstract] OR „critical care“ [Title/Abstract] OR „critical care unit“ [Title/Abstract] OR „critical care unit“ [Title/Abstract] OR „intensive care“ [Title/Abstract] OR „intensive care unit“ [Title/Abstract] OR „intensive care units“ [Title/Abstract] OR „respiratory care unit“ [Title/Abstract] OR „respiratory care units“ [Title/Abstract] OR „intensive treatment unit“ [Title/Abstract] OR „intensive therapy unit“ [Title/Abstract] OR „special care unit“ [Title/Abstract] OR „ICU“ [Title/Abstract] OR „ITU“ [Title/Abstract] OR „MICU“ [Title/Abstract] OR „controlled ventilation“ [Title/Abstract] OR „intensive care patient“ [Title/Abstract] OR „invasive ventilation“ [Title/Abstract] OR „invasive respiration“ [Title/Abstract] OR „artificial respiration“ [Title/Abstract] OR „mechanical ventilation“ [Title/Abstract] OR "critical illness"[MeSH Terms] OR "catastrophic illness"[MeSH Terms] OR "critical care"[MeSH Terms] OR "intensive care units"[MeSH Terms] OR "respiratory care units"[MeSH Terms]) AND (2014:2022[pdat])
	Final Search (#1 OR #2) AND #3	
Pedro	Since 2014	Abstract & Title: mob* critical*
		Abstract & Title: mob* ICU
		Abstract & Title: mob* intensive
		Abstract & Title: pron* critical*
		Abstract & Title: pron* ICU

		Abstract & Title: pron* intensive
		Abstract & Title: neuromusc* critical*
		Abstract & Title: neuromusc* ICU
		Abstract & Title: neuromusc* intensive
Cinahl	Search #1 (Lagerung)	„positioning“ OR „prone position“ OR „prone positioning“ OR „pronation“ OR „proning“ OR „prone“ OR „self-proning“ OR „conscious proning“ OR „conscious prone positioning“ OR „proning in non-intubated“ OR „PINI“ OR „prone ventilation“ OR „face down“ OR „ventral position“ OR „awake proning“ OR „supine position“ OR „supine positioning“ OR „supination“ OR „supine“ OR „lateral position“ OR „lateral positioning“ OR „sitting position“ OR „semisitting position“ OR „horizontal position“ OR „horizontal positioning“ OR „semi-recumbent position“ OR „rotation“ OR „body position“ OR „body positioning“ OR „patient positioning“ OR „positioning therapy“ OR „kinetic therapy“ OR „continuous lateral rotation“ OR „continuous passive motion therapy“ OR „backrest elevation“ OR „axial position change“ OR „body position change“ OR „facedown position“ OR „side position“ OR „posture“ OR „thorax angulation“ OR „kinetics“
	Search #2 (Mobilisation)	„mobilisation“ OR „mobilization“ OR „early mobilisation“ OR „early mobilization“ OR „early goal-directed mobilisation“ OR „early goal-directed mobilization“ OR „early ambulation“ OR „early exercise“ OR „early activity“ OR „early activities“ OR „early goal-directed therapy“ OR „early goal-directed therapies“ OR „accelerated ambulation“ OR „occupational therapy“ OR „occupational therapies“ OR „occupational therapist“ OR „physiotherapy“ OR „physical therapy“ OR „physical therapies“ OR „physical therapist“ OR „physical therapy modality“ OR „physical therapy modalities“ OR „physical fitness“ OR „mobility therapy“ OR „mobility therapies“ OR „exercise therapy“ OR „exercise therapies“ OR „movement therapy“ OR „movement therapies“ OR „myofunctional therapy“ OR „myofunctional therapies“ OR „kinesiotherapy“ OR „kinesiotherapies“ OR „motion therapy“ OR „mobility intervention“ OR „motor activity“ OR „motor activities“ OR „rehabilitation“ OR „muscle training“ OR „muscle

	strength“ OR „muscle strengthening“ OR „musculoskeletal manipulations“ OR „resistance training“ OR „strength training“ OR „endurance training“ OR „fitness training“ OR „high-intensity interval training“ OR „physical conditioning“ OR „physical medicine“ OR „physical endurance“ OR „physical strength“ OR „walking“ OR „exercise“ OR „exercises“ OR „exercising“ OR „exercise tolerance“ OR „functional status“ OR „load bearing“ OR „loadbearing“ OR „weight bearing“ OR „weightbearing“ OR „locomotion“ OR „locomotor activity“ OR „locomotor activities“ OR „muscle strength“ OR „muscle strengthening“ OR „recovery of function“ OR „function recovery“ OR „functional recoveries“ OR „functional recovery“ OR „functional training“ OR „joint mobilization“ OR „joint mobilization“ OR „movement“ OR „physical stimulation“ OR „stimulation“ OR „cycle“ OR „cycling“ OR „leg-cycle“ OR „leg-cycling“ OR „bicycle“ OR „bicycling“ OR „in-bed cycling“ OR „ergometer“ OR „ergometry“ OR „electrostimulation“ OR „electric stimulation“ OR „electrical stimulation“ OR „electrotherapy“ OR „electrotherapies“ OR „electric stimulation therapy“ OR „electric stimulation therapies“ OR „electrical stimulation therapy“ OR „electrical stimulation therapies“ OR „neuromuscular stimulation“ OR „neuromuscular electric stimulation“ OR „neuromuscular electrical stimulation“ OR „transcutaneous electric stimulation“ OR „transcutaneous electrical stimulation“ OR „muscle stimulation“ OR „muscular stimulation“ OR „muscle excitation“ OR „electromyostimulation“ OR „functional electrical stimulation“ OR „TENS“ OR „NMES“ OR „EMS“ OR „FES“ OR „assistive technology devices“
Search #3 (Critical Care)	„critically ill“ OR „critical illness“ OR „catastrophic illness“ OR „critical care“ OR „critical care unit“ OR „critical care units“ OR „intensive care“ OR „intensive care unit“ OR „intensive care units“ OR „respiratory care unit“ OR „respiratory care units“ OR „intensive treatment unit“ OR „intensive therapy unit“ OR „special care unit“ OR „ICU“ OR „ITU“ OR „MICU“ OR „controlled ventilation“ OR „intensive care patient“ OR „invasive ventilation“ OR „invasive respiration“ OR „artificial respiration“ OR „mechanical ventilation“
Final Search (#1 OR #2) AND #3	

8.3 Ergebnisse des Risk of Bias Assessments

8.3.1 Risk of Bias – Leitlinien (Agree-II)

ID	Autor	DOMAIN 1			DOMAIN 2			DOMAIN 3								DOMAIN 4			DOMAIN 5				DOMAIN 6		Overall quality
		1.1	1.2	1.3	2.1	2.2	2.3	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	4.1	4.2	4.3	5.1	5.2	5.3	5.4	6.1	6.2	
176	Aquim	7	7	5	4	2	3	7	5	5	4	5	7	2	1	7	6	7	6	6	6	4	7	4	5
209	Griffiths	7	7	5	7	7	7	7	7	6	7	7	7	3	1	7	6	7	6	6	6	4	7	7	6
265	Devlin	7	7	3	7	7	4	7	7	7	7	7	5	5	3	6	6	6	5	4	6	7	7	7	6
324	Hashimoto	7	7	7	7	7	7	7	7	7	7	7	7	7	5	7	7	7	7	7	7	7	6	5	7
334	Fan	7	7	5	7	7	4	7	7	7	7	7	7	4	5	7	6	7	7	7	7	7	7	7	7
360	Girard	7	7	7	7	4	7	7	7	7	7	7	7	5	4	7	6	7	7	6	6	7	7	7	7
361	Cho	7	7	5	7	2	4	7	7	7	7	7	7	7	4	7	7	7	6	6	7	6	7	7	6
450	Sommers	7	7	7	7	5	5	7	7	7	7	7	7	6	1	7	7	7	7	7	5	4	5	7	6
461	Hodgson	7	6	7	7	4	7	7	2	6	7	3	7	1	1	7	6	7	7	6	5	7	1	7	5
1198	Muscedere	6	6	5	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	6	7	7	7
2114	Cartotto	7	7	7	4	6	5	7	7	5	5	6	7	3	1	5	6	6	5	6	6	6	3	3	5
3004	Kirkpatrick	7	7	7	7	5	6	7	6	5	5	7	6	1	1	7	5	7	5	5	5	4	3	7	5
3113	Berry	7	7	7	7	7	7	7	7	7	7	7	7	7	2	7	7	7	7	7	7	7	7	7	7
3120	NICE	7	7	7	7	7	6	7	7	7	7	7	6	7	7	7	7	7	7	7	7	6	7	7	7
3122	Murray	6	7	5	6	2	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	6	7	7	7
4031	Van der Lee	7	6	6	5	6	7	7	2	4	5	4	7	1	6	7	5	7	6	6	1	4	7	7	5
4056	Tasaka	7	7	6	7	5	5	7	5	4	7	7	7	4	3	7	6	2	6	6	5	7	7	7	6
4061	Unoki	7	7	7	7	7	7	6	6	4	7	6	7	7	7	7	6	7	6	6	5	7	7	7	7

8.3.2 Risk of Bias – Systematische Reviews (Robis)

		Phase 1	Phase 2																			Phase 3									
ID	Autor	1	1.1	1.2	1.3	1.4	1.5	Summary 1	2.1	2.2	2.3	2.4	2.5	Summary 2	3.1	3.2	3.3	3.4	3.5	Summary 3	4.1	4.2	4.3	4.4	4.5	4.6	Summary 4	A	B	C	Summary
1	Klem	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	PY	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
9	Moran	YES	Y	Y	PY	PN	PY	LOW	NI	NI	NI	NI	NI	HIGH	NI	NI	NI	NI	NI	HIGH	NI	NI	NI	NI	NI	NI	HIGH	PN	PN	PN	UNCLEAR
13	Ponnapa	YES	Y	Y	Y	PY	Y	LOW	Y	PN	Y	Y	PY	LOW	Y	PY	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
17	Tan	NO	Y	PY	Y	PY	Y	LOW	PY	PN	PN	PY	PY	LOW	PY	Y	PY	Y	PY	LOW	PY	Y	Y	Y	PY	Y	LOW	Y	PY	Y	LOW
33	Patterson	UNCLEAR	Y	Y	PY	Y	Y	LOW	Y	Y	PY	Y	Y	LOW	Y	PY	PY	Y	Y	LOW	PY	PY	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
56	Menges	YES	Y	Y	Y	Y	PY	LOW	PN	PY	PN	N	PY	HIGH	Y	Y	Y	Y	Y	LOW	PY	Y	Y	Y	N	PY	UNCLEAR	PY	Y	Y	LOW
58	Gutierrez-Arias	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	PY	LOW	Y	Y	Y	LOW
65	Cao	YES	N	PY	PN	PY	Y	HIGH	Y	Y	PN	NI	Y	HIGH	Y	PY	Y	PY	Y	LOW	Y	NI	Y	Y	PN	PY	HIGH	Y	Y	Y	HIGH
76	Liang	UNCLEAR	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	PY	Y	Y	Y	Y	PY	LOW	Y	Y	Y	LOW
80	Nietogarcia	YES	Y	Y	Y	PY	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
109	Deng	YES	Y	Y	Y	PY	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
124	Worraphan	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
128	Wang	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
132	Liu	YES	Y	Y	Y	PN	PN	UNCLEAR	Y	NI	Y	PN	Y	UNCLEAR	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	PN	Y	Y	UNCLEAR
135	Takaoka	YES	Y	Y	Y	Y	Y	LOW	Y	Y	NI	PY	Y	LOW	Y	PN	Y	Y	Y	LOW	Y	PY	Y	Y	PY	Y	LOW	Y	Y	Y	LOW
151	Waldauf	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
162	Anekwe	YES	Y	Y	Y	Y	Y	LOW	Y	NI	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
181	Okada	YES	Y	Y	Y	Y	PY	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
194	Ding	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	NI	Y	LOW	Y	Y	Y	LOW
195	Zhang	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
210	Zang	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	PN	Y	LOW	Y	Y	Y	LOW
212	Zayed	YES	Y	Y	Y	PY	PN	LOW	Y	NI	Y	PN	Y	UNCLEAR	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	PY	Y	LOW	Y	Y	Y	LOW
252	Kang	YES	Y	Y	Y	Y	PY	LOW	PY	Y	PY	PN	Y	UNCLEAR	Y	PY	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	PY	Y	LOW
268	Taito	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	PN	Y	Y	LOW	Y	Y	Y	Y	NI	Y	LOW	Y	Y	Y	LOW
284	Fuke	YES	Y	PY	Y	PY	PN	HIGH	Y	Y	Y	PY	Y	LOW	Y	Y	N	Y	Y	UNCLEAR	Y	N	Y	Y	NI	Y	HIGH	PN	Y	Y	HIGH
315	Munshi	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
332	Schieren	YES	Y	Y	Y	PY	PY	LOW	N	N	N	PY	PY	HIGH	PN	PY	PY	PY	PY	HIGH	PY	Y	Y	Y	N	PN	UNCLEAR	PY	PY	Y	UNCLEAR

343	Nydahl	YES	Y	Y	Y	Y	Y	LOW	Y	NI	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	PY	Y	LOW	Y	Y	Y	LOW
358	Tipping	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	NI	LOW	Y	NI	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
412	Bloomfield	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
425	Polastri	UNCLEAR	PN	PN	N	PN	PN	HIGH	Y	PN	PY	NI	N	HIGH	N	PY	N	N	N	HIGH	NI	NI	N	N	N	NI	HIGH	PN	N	NI	HIGH
434	Castro-Avila	YES	Y	Y	Y	Y	Y	LOW	Y	Y	PY	Y	Y	LOW	Y	Y	Y	PY	PY	LOW	Y	Y	Y	Y	PY	PY	LOW	Y	Y	Y	LOW
456	Mora-Arreaga	YES	Y	PY	PY	PY	PN	LOW	Y	NI	PY	PN	PY	UNCLEAR	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	PY	PY	LOW	Y	Y	Y	LOW
465	Burke	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	PY	Y	Y	Y	Y	LOW	Y	Y	Y	PY	PY	Y	LOW	Y	Y	Y	LOW
479	Wageck	YES	Y	Y	Y	Y	Y	LOW	Y	PY	Y	Y	Y	LOW	Y	Y	Y	PY	PY	LOW	Y	Y	Y	Y	N	Y	UNCLEAR	PY	Y	Y	LOW
496	Lee	YES	Y	Y	Y	PY	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	PY	Y	LOW	Y	Y	Y	Y	PN	Y	LOW	Y	Y	Y	LOW
515	Higgins	YES	Y	Y	Y	Y	Y	LOW	PY	NI	Y	Y	PY	LOW	PY	PY	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
526	Hermans	YES	Y	Y	Y	Y	PY	LOW	Y	Y	Y	N	Y	UNCLEAR	Y	Y	Y	Y	Y	LOW	PY	Y	Y	Y	PY	Y	LOW	Y	Y	Y	LOW
527	Herling	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	PY	Y	Y	NI	LOW	PY	PY	Y	Y	PY	PY	UNCLEAR	PY	Y	Y	LOW
1001	Abroug	YES	Y	Y	Y	Y	Y	LOW	Y	NI	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	PY	Y	Y	LOW	Y	Y	Y	LOW
1002	Abroug	YES	Y	Y	Y	Y	Y	LOW	Y	NI	Y	PY	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
1004	Alsaghir	YES	Y	Y	Y	Y	PN	UNCLEAR	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
1006	Niel-Weise	YES	Y	Y	Y	PY	Y	LOW	PY	NI	Y	PY	Y	LOW	Y	PY	Y	PY	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
1013	Beitler	YES	Y	Y	Y	PN	PY	UNCLEAR	Y	Y	Y	PY	Y	LOW	Y	Y	Y	Y	PY	LOW	Y	PY	Y	PY	PN	PY	UNCLEAR	PY	Y	Y	LOW
1053	Kopterides	YES	Y	Y	Y	Y	Y	LOW	Y	Y	PY	Y	Y	LOW	Y	Y	Y	Y	PY	LOW	Y	Y	Y	Y	PY	Y	LOW	Y	Y	Y	LOW
1075	Sud	YES	Y	Y	Y	PY	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	PY	LOW	Y	Y	Y	Y	PY	Y	LOW	Y	Y	Y	LOW
1076	Sud	YES	Y	Y	Y	PY	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	PY	LOW	Y	Y	Y	Y	PY	Y	LOW	Y	Y	Y	LOW
1079	Tiruvoipati	YES	Y	Y	Y	PY	Y	LOW	Y	NI	Y	Y	Y	LOW	Y	Y	Y	Y	PY	LOW	Y	Y	Y	N	N	PY	UNCLEAR	PY	Y	Y	LOW
1088	Sud	YES	Y	Y	Y	PY	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	PY	LOW	Y	Y	Y	Y	PY	Y	LOW	Y	Y	Y	LOW
1138	Goldhill	YES	PY	PN	N	NI	NI	HIGH	NI	NI	NI	NI	NI	HIGH	PN	NI	PY	N	NI	HIGH	PY	PY	Y	PY	Y	PN	LOW	N	PY	NI	HIGH
1158	Delaney	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
1214	Wang	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
1263	Kayambu	YES	Y	Y	Y	Y	Y	LOW	PY	PY	Y	Y	Y	LOW	Y	Y	Y	PY	PY	LOW	Y	Y	Y	PY	PY	Y	LOW	Y	Y	Y	LOW
1303	Alexiou	YES	Y	PY	PY	PY	N	UNCLEAR	PY	PY	PY	PN	PY	UNCLEAR	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	N	PY	UNCLEAR	PY	PY	Y	UNCLEAR
2011	Li	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	PY	Y	LOW	Y	Y	Y	LOW
2015	Pozuelo-Carrascosa	YES	Y	Y	Y	Y	Y	LOW	Y	PY	Y	Y	Y	LOW	PY	PY	Y	Y	PY	LOW	Y	Y	Y	Y	Y	PY	LOW	Y	Y	Y	LOW
2021	Schmid	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	PY	Y	LOW	Y	Y	Y	Y	Y	LOW	PY	PY	PY	PN	PY	Y	LOW	Y	Y	Y	LOW

2022	Papazian	YES	Y	Y	Y	PY	PN	UNCLEAR	Y	PN	Y	PN	PY	UNCLEAR	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	PY	Y	Y	LOW
2024	Giani	YES	PY	PY	PY	Y	PY	LOW	PY	PN	PY	PY	PN	UNCLEAR	PY	PY	Y	N	PY	UNCLEAR	PY	Y	PY	PN	N	NI	HIGH	PY	PY	PY	UNCLEAR
2033	Zhuo	YES	Y	Y	Y	N	N	HIGH	PY	N	PY	N	PN	HIGH	Y	Y	Y	Y	Y	LOW	Y	PY	Y	Y	PY	PY	LOW	N	PY	PY	UNCLEAR
2034	Beran	YES	Y	Y	Y	Y	Y	LOW	Y	Y	PN	Y	Y	UNCLEAR	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	PY	Y	Y	LOW
2045	Poon	YES	Y	Y	Y	Y	Y	LOW	Y	Y	PN	Y	Y	UNCLEAR	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
2054	Liu	YES	PY	PY	PY	N	N	HIGH	PN	N	PN	N	PN	HIGH	PN	PY	PY	N	N	HIGH	PY	PY	PY	N	N	PN	HIGH	N	PY	PN	HIGH
2088	Longobardo	YES	Y	Y	Y	Y	PY	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	N	Y	LOW	Y	Y	Y	LOW
2112	Monsees	YES	Y	Y	Y	PY	PN	LOW	Y	Y	Y	PN	Y	LOW	Y	Y	Y	Y	Y	LOW	PN	Y	Y	Y	PY	Y	UNCLEAR	Y	Y	Y	LOW
2115	Matsuura	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
2128	Chen	YES	Y	Y	Y	Y	PY	LOW	Y	Y	Y	Y	PY	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	PY	Y	Y	LOW	Y	Y	Y	LOW
2170	Huang	YES	Y	Y	Y	PY	PY	LOW	Y	Y	Y	PY	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
2172	Wang	YES	Y	Y	Y	PY	PY	LOW	Y	PY	Y	PN	PY	UNCLEAR	PY	PY	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	PY	Y	Y	LOW
3083	Fazzini	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
4001	Garcia	YES	Y	Y	Y	Y	Y	LOW	Y	N	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
4002	Jarman	YES	Y	Y	Y	Y	PN	LOW	Y	Y	PY	PN	PN	HIGH	Y	NI	Y	Y	Y	LOW	PY	Y	Y	Y	N	PY	LOW	PN	PY	Y	LOW
4003	Matsuoka	YES	Y	Y	Y	Y	PN	LOW	PY	Y	Y	PN	NI	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	N	Y	LOW	PY	Y	Y	LOW
4005	Chatziefstratiou	YES	Y	PY	Y	PN	PN	HIGH	N	N	PN	N	NI	HIGH	Y	Y	Y	Y	NI	LOW	Y	Y	PY	Y	N	N	HIGH	PY	PN	Y	HIGH
4009	Kourek	YES	Y	Y	Y	Y	Y	LOW	Y	N	Y	PN	Y	UNCLEAR	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
4010	Xu	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
4013	Gabiatti	YES	PY	Y	PY	PY	Y	LOW	Y	Y	Y	PY	PY	LOW	PY	PY	PY	Y	Y	LOW	PY	PY	PY	PY	N	PY	UNCLEAR	PY	PY	PY	LOW
4017	Garcia	YES	Y	Y	Y	Y	Y	LOW	Y	N	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
4020	Chilltoki	YES	Y	Y	Y	Y	PY	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	PN	Y	LOW	Y	Y	Y	LOW
4022	Huang	YES	Y	Y	Y	N	PN	HIGH	Y	Y	Y	PN	PN	HIGH	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	PN	Y	PY	HIGH
4023	Barth	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	PN	Y	LOW	Y	Y	Y	LOW
4024	Kang	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	PN	Y	LOW	Y	Y	Y	LOW
4025	Li	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	PN	Y	LOW	Y	Y	Y	LOW
4026	Monsees	YES	Y	PY	PY	PY	PN	LOW	Y	Y	PY	PN	PY	LOW	NI	PY	PY	PY	Y	LOW	PY	Y	Y	Y	Y	Y	LOW	PY	Y	Y	LOW
4027	Weatherald	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
4028	Jones	YES	Y	PY	PY	PY	PY	LOW	Y	Y	Y	PY	PY	LOW	PY	Y	Y	Y	PY	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
4029	Sosnowski	YES	Y	Y	Y	Y	PN	LOW	Y	Y	Y	PN	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW
4030	Yu	YES	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	LOW	Y	Y	Y	Y	Y	Y	LOW	Y	Y	Y	LOW

8.3.3 Risk of Bias – Randomisiert kontrollierte Studien (RoB-2)

ID und Autor	D1	D2	D3	D4	D5	Overall	ID und Autor	D1	D2	D3	D4	D5	Overall	ID und Autor	D1	D2	D3	D4	D5	Overall	ID und Autor	D1	D2	D3	D4	D5	Overall
8 Nydahl	!	!	+	!	+	!	375 Frazzitta	!	+	!	+	!	!	2002 Alhazzani	+	!	+	+	+	!	3102 Abdellaoui	+	+	+	+	!	!
11 Waldauf	+	+	+	!	+	!	395 Dong	!	!	+	!	!	!	2010 Fralick	+	+	+	+	+	+	3103 Gerovasili	+	+	+	+	+	+
18 Guner	+	!	+	+	+	!	402 Fischer	!	+	+	+	!	!	2059 Rosen	+	+	+	+	+	+	3106 Gruther	+	+	!	+	!	!
28 Dong	!	!	+	+	+	!	404 Karadas	!	+	+	+	!	!	2105 Akbiyik	+	+	+	+	!	!	3107 Zanotti	!	!	+	!	!	!
69 Berney	+	+	+	!	+	!	443 Kayambu	+	+	!	+	!	!	2116 Rahiminezhad	+	+	!	+	!	!	3108 Meesen	+	+	!	+	!	!
72 Segers	+	+	+	!	!	!	458 Schallom	!	!	!	!	!	!	2118 Zhou	+	+	+	!	+	!	3109 Poulsen	+	+	+	+	!	!
88 Jonkman	+	!	!	+	!	!	459 Hannemann	!	+	+	+	+	!	2129 Kagan	+	+	!	!	!	!	3110 Rodriguez	+	+	+	+	!	!
91 Ribeiro	!	!	!	!	!	!	468 Kho	+	+	!	+	!	!	2131 Campos	+	+	!	!	+	!	3116 Nakamura	!	+	+	+	!	!
112 Nakanishi	+	+	+	!	!	!	469	+	+	!	+	!	!	2135 Han	+	+	+	!	+	!	3121 ECMO-Invest.	+	+	+	+	+	+
136 Nickels	+	+	+	+	!	!	474 Dong	!	!	!	!	!	!	2144 Kwakman	+	+	!	!	!	!	4000 Allahbakhshian	+	+	+	+	+	+
155 Franca	!	!	+	!	!	!	499 Yosef-Brauner	+	+	+	+	+	+	2163 Afxonidis	+	+	+	+	+	+	4004 Rapolthy-Beck	+	!	+	+	+	!
156 Schujmann	+	!	+	+	+	+	505 Winkelmann	+	+	+	+	+	+	2167 Azevedo	+	+	!	+	!	!	4006 Verceles	+	+	+	+	!	!
160 Yu	!	!	+	!	!	!	506 Hodgson	!	+	+	+	+	!	2215 Amundadottir	+	+	+	+	+	+	4007 Patel	+	+	+	+	+	+
171 Gama Lordello	+	!	+	!	!	!	507 Machado	+	+	+	+	!	!	3001 Beuret	+	+	+	+	+	+	4011 Güner	+	+	+	+	!	!
173 Windmoeller	+	+	+	+	!	!	508 Schaller	+	+	+	+	+	+	3002 Bein	+	+	+	+	+	+	4012 Hodgson	+	+	+	+	+	+
198 Nakamura	!	+	+	+	!	!	509 Amundadottir	!	+	!	+	+	!	3006 Ehrmann	+	+	+	+	!	!	4014 Neves	+	+	+	!	+	!
199 Pang	!	!	+	!	!	!	516 Akar	!	+	+	+	+	!	3007 Taylor	!	+	+	+	+	!	4015 Campos	!	+	+	+	!	!
214 Nydahl	+	!	+	!	+	!	522 Silva	+	+	+	+	!	!	3011 Gad	+	+	+	+	+	+	4018 Cebeci	!	!	+	!	!	!
218 Wollersheim	+	+	!	+	!	!	523 Moss	!	!	+	!	!	!	3019 Drakulovic	!	+	+	+	+	!	4019 Mahran	!	!	+	!	!	!
246 Eggmann	+	+	+	+	+	+	1025 Keeley	!	+	!	!	!	!	3020 Borges	+	+	+	+	+	+	4039 Stroppa de Paula	+	+	+	+	+	+
247 Koutsoumpa	!	+	!	!	!	!	1034 Fernandez	+	!	+	!	+	!	3048 Patman	+	+	+	+	+	+	4045 Nydahl	+	!	+	!	!	!
251 Dos Santos	+	!	!	+	!	!	1045 Guerin	+	+	+	+	+	+	3050 Van der Peijl	+	+	+	+	+	+	4054 Kapp	+	!	+	!	!	!
269 Fossat	+	+	+	+	+	+	1056 Mancebo	+	+	+	+	+	+	3053 Routsi	+	+	+	+	+	+	4059 Othman	+	!	+	+	!	!
279 Hickmann	!	+	+	+	!	!	1077 Taccone	+	+	+	+	+	+	3060 Gerovasili	+	+	+	+	+	+	4060 Othman	+	!	+	!	!	!
286 Medrinal	+	+	+	!	!	!	1082 Voggenreiter	!	+	+	!	!	!	3074 Morris	+	+	+	+	!	!	4062 Wu	+	!	+	+	!	!
289 Sarfati	+	+	+	+	+	+	1119 Bein	+	+	+	+	!	!	3080 Abu-Khaber	!	!	!	!	!	!	4064 Alhazzani	!	!	+	!	!	!
300 Turk	!	+	+	!	+	!	1162 Burtin	+	+	+	!	+	!	3085 Ibarra-Estrada	+	+	+	+	+	+	4065 Bao	+	!	+	!	!	!
313 Li-Bassi	+	+	+	+	+	+	1169 Simonis	+	+	+	+	!	!	3088 Seo	!	!	+	!	!	!	4067 Schweickert	+	!	+	+	!	!
323 Wright	+	+	!	+	+	!	1173 Staudinger	+	+	+	+	+	+	3090 Lago	+	+	+	+	+	+	4069 Lin	+	!	+	+	!	!
333 Semler	+	+	+	+	+	+	1182 Thomas	!	+	+	+	+	!	3098 Dantas	+	!	+	!	!	!	4070 Liu	!	!	+	!	!	!
340 Maffei	!	+	+	!	!	!	1288 Bezbaruah	+	!	+	!	!	!	3100 Shen	!	!	+	+	+	!							
347 Dall	+	+	+	+	!	!	1292 Schweickert	+	+	+	+	+	+	3101 McCaughey	+	+	+	+	+	+							

+

 Low risk

!

 Some concerns

!

 High risk

D1

 Randomisation process

D2

 Deviations from the intended interventions

D3

 Missing outcome data

D4

 Measurement of the outcome

D5

 Selection of the reported result

8.4 LoE-Anpassungen

Number	Titel	Jahr	Journal	Autoren	Pubmed-ID	Ausschlussgrund	Kapitel	LoE initial	Bias	LoE final	Duplikatverweise
1	Early activity in mechanically ventilated patients - a meta-analysis.	2021	Tidsskrift for den Norske lægeforening : tidsskrift for praktisk medicin, ny raekke	Klem HE and Twetten TS and Beitland S and Malervtjod S and Kristoffersen DT and Dalsnes T and Nupen-Stieng MB and Larun L	34047169		Mobilisation	1	Low	1	Duplicate; also --> 2227
2	Effect of Graded Early Mobilization on Psychomotor Status and Length of Intensive Care Unit Stay in Mechanically Ventilated Patients.	2021	Indian journal of critical care medicine : peer-reviewed, official publication of Indian Society of Critical Care Medicine	Das B and Saha S and Kabir F and Hossain S	34045809		Mobilisation	3		4	Duplicate; also --> 2183
3	Physiological abnormalities and adverse events during physical therapy in the intensive care unit after cardiac surgery: A prospective observational study.	2021	Brazilian journal of physical therapy	Sousa ML A and Coimbra VR M and Takei MT and Melo CCA and Feltrim MJZ and Nozawa E	34045123	not PICO	Mobilisation				Duplicate; also --> 2184
4	Variables associated with mobility levels in critically ill patients: A cohort study.	2021	Nursing in critical care	Raurell-Torreda M and Ariza-Rivera S and Martinez JD and Frade-Mera MJ and Zaragoza-Garcia I and Gallart E and Velasco-Sanz TR and San Jose V de Arribas A and Blazquez-Martinez E	34008238	not PICO	Mobilisation				Duplicate; also --> 2228
5	Impact of prone position in non-intubated spontaneously breathing patients admitted to the ICU for severe acute respiratory failure due to COVID-19.	2021	Journal of critical care	Jouffroy R and Darmon M and Isnard F and Geri G and Beurtou A and Fartoukh M and Tudesq J and Nemlagni S and Demoule A and Asoulay E and Viellard-Baron A	33990007		Prone position	3		3	Duplicate; also --> 2062
6	Mobilization During Critical Illness: A Higher Level of Mobilization Improves Health Status at 6 Months, a Secondary Analysis of a Prospective Cohort Study.	2021	Critical care medicine	Paton M and Lane R and Paul E and Cuthbertson GA and Hodgson CL	33967203		Mobilisation	4		4	Duplicate; also --> 2186
7	Environmental Factors Affecting Early Mobilization and Physical Disability Post-intensive Care: An Integrative Review Through the Lens of the World Health Organization International Classification of Functioning, Disability, and Health.	2021	Dimensions of critical care nursing : DCCN	Potter K and Miller S and Newman S	33961378	Article type	Mobilisation				
8	Mobilization in the evening to prevent delirium: A pilot randomized trial.	2021	Nursing in critical care	Nydahl P and McWilliams D and Weiler N and Borzikowsky C and Howroyd F and Brobbel A and Lindner M and von Halem R	33946128		Mobilisation	2	Some concerns	3	Duplicate; also --> 2187; 4045
9	Multivariate Meta-Analysis of the Mortality Effect of Prone Positioning in the Acute Respiratory Distress Syndrome.	2021	Journal of intensive care medicine	Moran JL and Graham PL	33942659		Prone position	1	Unclear	1	Duplicate; also --> 2064
10	Diminishing Efficacy of Prone Positioning With Late Application in Evolving Lung Injury.	2021	Critical care medicine	Xin Y and Martin K and Morais CCA and Delvecchio P and Gerard SE and Hamedani H and Herrmann J and Abate N and Lenart A and Humayun S and Sidhu U and Petrov M and Reutlinger K and Mandelbaum T and Duncan I and Tustison N and Kadlecik S and Chatterjee S and Gee JC and Riz RR and Beria L and Cereda M	33938714	Article type	Prone position				Duplicate; also --> 2065
11	Functional electrical stimulation-assisted cycle ergometry-based progressive mobility programme for mechanically ventilated patients: randomised controlled trial with 6 months follow-up.	2021	Thorax	Waldau P and Hruu"kov" N and Blahutova B and Goida J and Urban T and Krajcovic" A and Fric M and Jiroutkov" K and "basov" K and Dun"ka F	33931570		NMES	2	some concerns	2	Duplicate; also --> 2216
12	Effect of serial awake prone positioning on oxygenation in patients admitted to intensive care with COVID-19.	2022	Postgraduate medical journal	Barker J and Pan D and Koesterling D and Baldwin AJ and West R	33931557		Prone position	4		4	Duplicate; also --> 2066
13	Prone Positioning of Nonintubated Patients With Coronavirus Disease 2019-A Systematic Review and Meta-Analysis.	2021	Critical care medicine	Ponnappa Reddy M and Subramaniam A and Afrooz A and Billah B and Lim ZJ and Zubarev A and Bleher G and Tiruvolpati R and Ramanathan K and Wong SN and Brodie D and Fan E and Shekar K	33927120		Prone position	1	Low	2	Duplicate; also --> 2067
14	Awake prone positioning in non-intubated patients for the management of hypoxemia in COVID-19: A systematic review and meta-analysis.	2021	Monaldi archives for chest disease - Archivio Monaldi per le malattie del torace	Pb S and Mittal S and Madan K and Mohan A and Tiwari P and Hadda V and Pandey RM and Guleria R	33926179	not PICO	Prone position				Duplicate; also --> 2068
15	Sustained oxygenation improvement after first prone positioning is associated with liberation from mechanical ventilation and mortality in critically ill COVID-19 patients: a cohort study.	2021	Annals of intensive care	Scaramuzza G and Gamberini L and Tonetti T and Zani G and Ottaviani I and Mazzoli CA and Capozzi C and Giampalma E and Bacchi Reggiani ML and Bertellini E and Castelli A and Cavalli I and Colombo D and Crimaldi F and Damiani F and Fouat M and Gamberini F and Gordini G and Laici C and Lanza MC and Leo M and Marudi A and Nardi G and Papa R and Potalivo A and Russo E and Taddei S and Consales G and Cappellini I and Ranieri VM and Volta CA and Guerin C and Spadaro S	33900484		Prone position	4		4	Duplicate; also --> 2070
16	Targeted lateral positioning decreases lung collapse and overdistension in COVID-19-associated ARDS.	2021	BMC pulmonary medicine	Milek M and Chy"hal M and Borges JB and Alcalá GC and Hladky D and Kuri"Jp"K E and Tejkl L and Amato M and Kittnar O	33894747	Article type					Duplicate; also --> 2072
17	The efficacy and tolerance of prone positioning in non-intubation patients with acute hypoxemic respiratory failure and ARDS: a meta-analysis.	2021	Therapeutic advances in respiratory disease	Tan W and Xu DY and Xu MJ and Wang ZF and Dai B and Li LL and Zhao HW and Wang W and Kang J	33888007		Prone position	1	Low	2	Duplicate; also --> 2073
18	Role of head-of-bed elevation in preventing ventilator-associated pneumonia bed elevation and pneumonia.	2021	Nursing in critical care	Güner CK and KulutVrkan S	33884691		Positioning	2	Some concerns	2	Duplicate, also 2074, 4011
19	Development of a Prone Team and Exploration of Staff Perceptions During COVID-19.	2021	AACN advanced critical care	Miguel K and Snydeman C and Capasso V and Walsh MA and Murphy J and Wang XS	33878151	not PICO	Prone position				
20	The Correlation between Head of Bed Angle and Intra-Abdominal Pressure of Intubated Patients	2021	Archives of Academic Emergency Medicine				Positioning	3		3	
21	A systematic review and meta-analysis of the effects of early mobilization therapy in patients after cardiac surgery. - A PROTOCOL	2021	Medicine	Chen B and Xie G and Lin Y and Chen L and Lin Z and You X and Xie X and Dong D and Zheng X and Li D and Lin W	33847630	Article type	Mobilisation				Duplicate; also --> 2230
22	Predictive factors for success of awake proning in hypoxemic respiratory failure secondary to COVID-19: A retrospective cohort study.	2021	Respiratory medicine	Cherian SV and Li C and Roche B and Reyes SA and Karanth S and Lal AP and Alsenberg GM and Estrada-Y-Martin RM	33845325	not PICO	Prone position				
23	Effect of care bundles in the nursing of severe pneumonia.	2021	American journal of translational research	Li J and Wang M and Peng L and Zhang H and He H and Zhao Y	33841699	not PICO	Positioning				
24	Transcutaneous electrical diaphragmatic stimulation reduces the duration of invasive mechanical ventilation in patients with cervical spinal cord injury: retrospective case series.	2021	Spinal cord series and cases	Duarte GL and Bethiol AL and Ratti LDSR and Franco G and Moreno R and Tonella RM and Falce"o ALE	33837183	not PICO	NMES				
25	Short-term effects of mobilization on oxygenation in patients after open surgery for pancreatic cancer: a randomized controlled trial.	2021	BMC surgery	Fagewik Olsv"bn M and Becovic S and Dean E	33827537	not PICO	Mobilisation				Duplicate; also --> 2188
26	Early awake proning in critical and severe COVID-19 patients undergoing noninvasive respiratory support: A retrospective multicenter cohort study.	2022	Pulmonology	Tonelli R and Pisani L and Tabby" L and Comellini V and Prediletto I and Fantini R and Marchioni A and Andrian D and Gosti F and Bruzzi G and Manicardi L and Busani S and Mussini C and Castaniere I and Bassi I and Carpano M and Tagariello F and Corsi G and d'Amico R and Girardi M and Nova S and Cini E	33824084		Prone position	4		4	Duplicate; also --> 2077
27	Prone position in intubated, mechanically ventilated patients with COVID-19: a multi-centric study of more than 1000 patients.	2021	Critical care (London, England)	Langer T and Brioni M and Guzzardello A and Carlesso E and Cabirini L and Castelli G and Dalla Corte E and De Robertis E and Favaro M and Forastieri A and Forlini C and Girardi R and Grieco DL and Mirabella L and Nosseda V and Previtali F and Protti A and Rona R and Tardini F and Tonetti T and Zannoni F and Antonelli M and Foti G and Ranieri M and Presenti A and Fumagalli R and Grasselli G	33823862		Prone position	4		4	
28	Early rehabilitation relieves diaphragm dysfunction induced by prolonged mechanical ventilation: a randomised control study.	2021	BMC pulmonary medicine	Dong Z and Liu Y and Gu Y and Meng P and Lin H and Zhao Y and Xing J	33781259		Mobilisation	2	Some concerns	2	Duplicate; also --> 2189
29	Physiological Responses to In-Bed Cycle Ergometry Treatment in Intensive Care Unit Patients with External Ventricular Drainage.	2021	Neurocritical care	Zink EK and Kumble S and Beier M and George P and Stevens RD and Bahouth MN	33751389	not PICO	Tools				Duplicate; also --> 2079

Nummer	Titel	Jahr	Journal	Autoren	Pubmed-ID	Ausschlussgrund	Kapitel	LoE initial	Bias	LoE final	Duplikatverweise
30	Nursing care and prevalence of adverse events in prone position: Characteristics of mechanically ventilated patients with severe SARS-CoV-2 pulmonary infection.	2021	Nursing in critical care	Rodriguez-Huerta MD and Dvize-Fernandez A and Rodriguez-Alonso MJ and Robles-Gonzalez M and Martyn-Rodriguez M and Gonzalez-Garcia A	33725746		Prone position	4		4	Duplicate; also -> 2081
31	Awake Prone as an Adjunctive Therapy for Refractory Hypoxemia in Non-Intubated Patients with COVID-19 Acute Respiratory Failure: Guidance from an International Group of Healthcare Workers.	2021	The American journal of tropical medicine and hygiene	Stlima W and vOkerman E and Artigas A and Bentley A and Bos LD and Bosman TIC and de Bruin H and Brummeler T and Buteman-Krullringa LA and Carcote F and Cheney G and Chu C and Dark P and Dondorp AM and Gijbbers HJH and Gilder ME and Grieco DL and Inglis R and Laffey JG and Landoni G and Lu W and Maduro LM and McGroarty R and Michopoulos S and de Mendoza D and Morales-Quintero L and Nosten F and Papali A and Paternoster G and Paulus F and Pisani L and Pruthi-Hernandez E and Ricard JD and Roca O and Sartini C and Scaravilli V and Schultz MJ and Sivakorn C and Spronk PE and Satajnbok J and Trigu Y and Vollman KM and van der Woude MCE	33705348	Article type	Prone position				
32	Effect of proning in patients with COVID-19 acute hypoxemic respiratory failure receiving noninvasive oxygen therapy.	2021	Lung India : official organ of Indian Chest Society	Sryma PB and Mittal S and Mohan A and Madan K and Tware P and Bhutnagar S and Trikha A and Dosi R and Bhopale S and Viswanath R and Hadda V and Guleria R and Balawa B	33686973		Prone position	3		4	Duplicate; also -> 2082
33	Ocular Injury Associated With Prone Positioning in Adult Critical Care: A Systematic Review and Meta-Analysis.	2021	American journal of ophthalmology	Patterson TJ and Currie P and Williams M and Shevlin C	33675753		Prone position	1	Low	1	Duplicate; also -> 2083
34	Role of awake prone positioning in patients with moderate-to-severe COVID-19: an experience from a developing country.	2021	Monaldi archives for chest disease = Archivio Monaldi per le malattie del torace	Khanum I and Samar F and Fatimah Y and Safia A and Adil A and Kiren N and Nasir N and Faisal M and Bushra J	33666067	not PICO	Prone position				
35	Care and treatments related to intensive care unit-acquired muscle weakness: A cohort study.	2021	Australian critical care : official journal of the Confederation of Australian Critical Care Nurses	Raurell-Torreda M and Arias-Rivera S and Martve JD and Frade-Mera MJ and Zaragoza-Garcia I and Gallart E and Velasco-Sanz TR and San Jose VQ-Arribas A and Blazquez-Martinez E	33663950	not PICO	Mobilisation				
36	A Case-Control Study of Prone Positioning in Awake and Nonintubated Hospitalized Coronavirus Disease 2019 Patients.	2021	Critical care explorations	Nauka PC and Chekuri S and Aboodi M and Hope AA and Gong MN and Chen JT	33615236		Prone position	4		4	
37	Prone Positioning in Spontaneously Breathing Subjects With Moderate or Severe ARDS During Invasive Ventilation.	2021	Respiratory care	Wiarit A and Castaneres-Zapatero D and Wittebole X and Maerckx G and David G and Latere PF and Gerard L	33653912		Prone position	4		4	Duplicate; also -> 2084
38	Early Prone Positioning and Non-Invasive Ventilation in a Critical COVID-19 Subset: A Single Centre Experience in Southern Italy.	2021	Turkish thoracic journal	Simioli F and Annunziata A and Langella G and Martino M and Musella S and Fiorentino G	33646105		Prone position	4		4	Duplicate; also -> 2085
39	Feasibility, tolerance and effectiveness of enteral feeding in critically ill patients in prone position.	2021	Journal of the Intensive Care Society	Savio RD and Parasuraman R and Lovely D and Shankar B and Rangathan L and Ramakrishnan N and Venkataraman R	33643431	not PICO	Prone position				
40	Rehabilitation to enable recovery from COVID-19: a rapid systematic review.	2021	Physiotherapy	Goodwin VA and Allan L and Bethel A and Cowley A and Cross JL and Day J and Drummond A and Hall AJ and Howard M and Morley N and Thompson Coon J and Lamb SE	33637294	Article type	Mobilisation				
41	Improving Mobility in Critically Ill Patients in a Tertiary Care ICU: Opportunities and Challenges.	2021	Indian journal of critical care medicine: peer-reviewed, official publication of Indian Society of Critical Care Medicine	Mohan S and Patodia S and Kumaravel S and Venkataraman R and Vijayaraghavan BKT	33603299	not PICO	Mobilisation				
42	Lung recruitment in the prone position after cardiac surgery: a randomised controlled study.	2021	British journal of anaesthesia	Martinson A and Houltz E and Wallinder A and Lindgren S and Thorén A	33602580	not PICO	Prone position				Duplicate; also -> 2086
43	Prone Positioning and Survival in Mechanically Ventilated Patients With Coronavirus Disease 2019-Related Respiratory Failure.	2021	Critical care medicine	Mathews KS and Soh H and Shaefi S and Wang W and Bose S and Coca S and Gupta S and Nayak SS and Srivastava A and Brenner SK and Radbel J and Green A and Sutherland A and Leonberg-Yoo A and Shehata A and Schenck EI and Short SAP and Herrin NA and Chan L and Leaf DE	33595960		Prone position	4		3	Duplicate; also -> 2087
44	Effects of Prone Positioning on Venous Return in Patients With Acute Respiratory Distress Syndrome.	2021	Critical care medicine	Lai C and Adila and Teboul JL and Persichini R and Gavelli F and GuvOrin L and Monnet X and Dhbe H and Nakamura K and Uda K and Matsui H and Yasunaga H	33590997		Prone position	4		4	Duplicate; also -> 2089
45	Effect of Early Rehabilitation on Physical Function in Patients Undergoing Coronary Artery Bypass Grafting: A Nationwide Inpatient Database Study.	2021	Journal of clinical medicine	Naess HL and Vikane E and Wehling EI and Skouen S and Bell RF and Johnson LG	33561986		Mobilisation	4		3	Duplicate; also -> 2191
46	Effect of Early Interdisciplinary Rehabilitation for Trauma Patients: A Systematic Review.	2020	Archives of rehabilitation research and clinical translation	Xiao G and Liu J and Zhang L and Yue Y and Weng X and He Z and Lv L and Dong W and Li J and Long K and Yang R	33541097	Article type	Mobilisation				
47	A randomized, controlled, multicenter clinical study of the "improved sitting Wuqinxin" intervention for mechanically ventilated patients in the intensive care unit.	2021	Medicine	Wilkinson OM and Bates A and Cusack R	33530186	Article type	Mobilisation				Duplicate; also -> 2091
48	An observational feasibility study - does early limb ergometry affect oxygen delivery and uptake in intubated critically ill patients - a comparison of two assessment methods.	2021	BMC anesthesiology	Apte Y and Jacobs K and Shewlin S and Murray A and Tung L and Ramanan M and Massey D	33494702	not PICO	Tools				
49	Prone positioning in patients with acute respiratory distress syndrome: translating research and implementing practice change from bench to bedside in the era of coronavirus disease 2019.	2021	Australian critical care : official journal of the Confederation of Australian Critical Care Nurses	Oyemisci Taskiran O and Turan Z and Tekin S and Senturk I and Topaloglu M and Yurdakul F and Ergonen O and Cakar N	33487546	Article type	Prone position				Duplicate; also -> 2093
50	Physical rehabilitation in intensive care unit in acute respiratory distress syndrome patients with COVID-19.	2021	European journal of physical and rehabilitation medicine	Ibarra G and Rivera A and Fernandez-Ibarburu B and Lora-Garcia C and Garcia-Ruano A	33448757		Mobilisation	3		3	Duplicate; also -> 2192
51	Prone position pressure sores in the COVID-19 pandemic: The Madrid experience.	2020	Journal of plastic, reconstructive & aesthetic surgery: JPRAS	Hassan EA and Baraka AAE	33446462		Prone position	4		4	Duplicate; also -> 2096
52	The effect of reverse Trendelenburg position versus semi-recumbent position on respiratory parameters of obese critically ill patients: A randomised controlled trial.	2021	Journal of clinical nursing	Clarke	33432600	not PICO	Positioning				Duplicate; also -> 2097
53	Prone positioning improves oxygenation and lung recruitment in patients with SARS-CoV-2 acute respiratory distress syndrome	2021	BMC Research Notes	Schefflenbrihtter FT and Teja B and Wongtangman K and Mazwi N and Waak K and Schaller SJ and Xu X and Barbieri S and Fagoni N and Cassavough J and Blöbner M and Hodgson CL and Latronico N and Eikermann M	33422148		Prone position	3		3	Duplicate; also -> 2098
54	Effects of the Level and Duration of Mobilization Therapy in the Surgical ICU on the Loss of the Ability to Live Independently: An International Prospective Cohort Study	2021	Critical care medicine	Newman ANL and Kho ME and Harris JE and Zamir N and McDonald E and Fox-Robichaud A and Solomon P	33416257		Mobilisation	3		3	Duplicate; also -> 2193
55	Cardio Cycle: a pilot feasibility study of in-bed cycling in critically ill patients post cardiac surgery.	2021	Pilot and feasibility studies	Mengen D and Seifert B and Tomonaga Y and Schwenkengels M and Putian NA and Yebou HG	33407923	not PICO	Tools				Duplicate; also -> 2194
56	Systematic early versus late mobilization or standard early mobilization in mechanically ventilated adult ICU patients: systematic review and meta-analysis.	2021	Critical care (London, England)	Douglas IS and Rosenthal CA and Swanson DD and Hiller T and Oakes J and Bach J and Whetzel C and Pickering J and George T and Kearns M and Hanley M and Mould K and Roark S and Mansoori J and Mehta A and Schmidt EP and Neumeier A	33407707		Mobilisation	1	Low	1	Duplicate; also -> 2195
57	Safety and Outcomes of Prolonged Usual Care Prone Position Mechanical Ventilation to Treat Acute Coronavirus Disease 2019 Hypoxemic Respiratory Failure.	2021	Critical care medicine	Gutierrez-Arias RE and Zapata-Quiroz CC and Prenaleta-Pedemonte BO and Nazar-Lillo NA and Gallardo-Zamorano DI	33405409		Prone position	4		4	Duplicate; also -> 2099
58	Effect of Neuromuscular Electrical Stimulation on the Duration of Mechanical Ventilation.	2021	Respiratory care		33402382		NMES	1	Low	1	Duplicate; also -> 2237

Nummer	Titel	Jahr	Journal	Autoren	Pubmed-ID	Ausschlussgrund	Kapitel	LoE initial	Bias	LoE final	Duplikatverweise
59	Facial Pressure Injuries from Prone Positioning in the COVID-19 Era.	2021	The Laryngoscope	Shearer SC and Parsa KM and Newark A and Peesay T and Walsh AR and Fernandes S and Gao WZ and Pierce ML	33389768		Prone position	4		4	Duplicate; also -> 2100
60	Effects of aerobic cycling training on mobility and functionality of acute stroke subjects: A randomized clinical trial.	2021	NeuroRehabilitation	da Rosa Pinheiro DR and Cabelero MPD and da Campo LA and Corrym P and Blaith AHGG and Cecchetti F	33386826	not PICO	Tools				Duplicate; also -> 2196
61	Prone Positioning in Moderate to Severe Acute Respiratory Distress Syndrome Due to COVID-19: A Cohort Study and Analysis of Physiology.	2021	Journal of intensive care medicine	Shehameer MC and Wesson PD and Solari IL and Jensen DL and Steele WA and Dimitrov VG and Kelly ID and Aziz S and Gutierrez VP and Vittinghoff E and Chung KK and Menon VP and Ambris HA and Baki SM	33380236		Prone position	3		3	Duplicate; also -> 2101
62	Effects of Prone Ventilation on Oxygenation, Inflammation, and Lung Infiltrates in COVID-19-Related Acute Respiratory Distress Syndrome: A Retrospective Cohort Study.	2020	Journal of clinical medicine	Khullar R and Shah S and Singh G and Bae J and Gattu R and Jain S and Green J and Anandarangan T and Cohen M and Madan N and Prasanna P	33371426	not PICO	Prone position				
63	Impact of Early and Regular Mobilization on Vital Signs and Oxygen Saturation in Patients Undergoing Open-Heart Surgery.	2020	Brazilian journal of cardiovascular surgery	Köse S and Ayvaz G	33355786	not PICO	Mobilisation				Duplicate; also -> 2197
64	Effects of Inhaled Epoprostenol and Prone Positioning in Intubated Coronavirus Disease 2019 Patients With Refractory Hypoxemia.	2020	Critical care explorations	Li J and Fink JB and Augustynovich AE and Mirza S and Kallet RH and Dhano R	33354678	not PICO	Prone position				
65	Prone versus Supine Position Ventilation in Adult Patients with Acute Respiratory Distress Syndrome: A Meta-Analysis of Randomized Controlled Trials.	2020	Emergency medicine international	Cao Z and Yang Z and Liang Z and Cen Q and Zhang Z and Liang H and Liu R and Zeng L and Xie Y and Wang Y	33343939		Prone position	1	High	2	
66	Nursing Management of Prone Positioning in Patients With COVID-19.	2021	Critical care nurse	Binda F and Morelli F and Galazzi A and Pascuzzo R and Adinolfi L and Lapiquenza D	33341885	Article type	Prone position				
67	The Association between Frailty and Short-Term Outcomes in an Intensive Care Unit Rehabilitation Trial: An Exploratory Analysis.	2021	The Journal of frailty & aging	Takaoka A and Heiss-Andsell D and Cook DJ and Kho ME	33331622	not PICO	Mobilisation				Duplicate; also -> 2198
68	Outcomes of an intermediate respiratory care unit in the COVID-19 pandemic.	2020	PloS one	Carillo Hernandez-Rubio J and Sanchez-Carpintero Abad M and Yordi Leon A and Doblaré Higuera G and Garcia Rodriguez L and Garcia Torreon C and Mayor Cacho A and Jimenez Rodriguez A and Garcia-Salmones Martin M	33326484		Prone position	3		3	
69	Functional electrical stimulation in-bed cycle ergometry in mechanically ventilated patients: a multicentre randomised controlled trial.	2020	Thorax	Berney S and Hopkins RD and Rose JW and Koopman R and Puthucherry Z and Pasiva A and Gordon I and Colantuoni E and Parry SM and Needham DM and Denehy L	33323480		Tools	2	Some concerns	2	Duplicate; also -> 2199
70	A single-centre study of safety and efficacy of prone positioning for critically ill patients on veno-venous extracorporeal membrane oxygenation.	2021	Australian critical care : official journal of the Confederation of Australian Critical Care Nurses	Chaplin H and McGuinness S and Parke R	33303317		Prone position	4		4	Duplicate; also -> 2103
71	Prone Position after Liberation from Prolonged Mechanical Ventilation in COVID-19 Respiratory Failure.	2020	Critical care research and practice	Karpov A and Mitra AR and Crowe S and Haljan G	33299605	not PICO	Prone position				
72	Early neuromuscular electrical stimulation reduces the loss of muscle mass in critically ill patients - A within subject randomized controlled trial.	2021	Journal of critical care	Segers J and Vanhoerebeek I and Langer D and Charausin N and Wei W and Fricks B and Demeyere I and Clerckx B and Cassel M and Derese I and Derde S and Pauwels L and Van den Berge G and Hermans G and Gosselink R	33285371		NMES	2	Some concerns	3	Duplicate; also -> 2104
73	Awake Prone Positioning in COVID-19 Patients.	2020	Indian journal of critical care medicine : peer-reviewed, official publication of Indian Society of Critical Care Medicine	Singh P and Jain P and Deewan H	33281314	not PICO	Prone position				
74	Effect of nurse-led, goal-directed lung physiotherapy on prognosis of patients with sepsis caused by Acinetobacter baumannii pulmonary infection.	2021	International journal of infectious diseases : IJID : official publication of the International Society for Infectious Diseases	Chen J and Zhou R and Li Z and Li Q and Long Y and Wang H and Cui N	33278626	not PICO					
75	Feasibility, safety, and resource utilisation of active mobilisation of patients on extracorporeal life support: a prospective observational study.	2020	Annals of intensive care	Braune S and Bojes P and Mecklenburg A and Angliman F and Soeffler G and Warnke K and Westermann D and Blankenberg S and Kubik M and Reichenspurner H and Kluge S	33259044		Mobilisation	3		3	
76	Effects of nonpharmacological delirium-prevention interventions on critically ill patients' clinical, psychological, and family outcomes: A-systematic review and meta-analysis.	2020	Australian critical care : official journal of the Confederation of Australian Critical Care Nurses	Liang S and Chau JPC and Lo SHS and Zhao J and Choi KC	33250403		Mobilisation	1	Low	2	
77	Early Mobilization in Older Adults with Acute Cardiovascular Disease.	2020	Age and ageing	Goldfarb M and Semaar-Kateroomi K and Moras JA and Dima D	33247593		Mobilisation	4		4	Duplicate; also -> 2201
78	Recommendations for treatment of critically ill patients with COVID-19 : Version-13 S11-guideline.	2020	Der Anaesthetist	Kluge S and Janssens U and Welte T and Weber-Garstens S and Schvöke G and Salzberger B and Gastmeier P and Langer F and Welpeier M and Westhoff M and Pfeiler M and Hoffmann F and Böttiger BW and Marx G and Karagiannidis C	33245382	not PICO					
79	Influence of the acuity of patients' illness on effectiveness of early, goal-directed mobilization in the intensive care unit: a post hoc analysis.	2020	Critical care (London, England)	Scheffebichler L and Teja B and Scheffebichler F and Blobner M and Houle T and Eikermann M	33239045		Mobilisation	4		4	
80	Can an early mobilisation programme prevent hospital-acquired pressure injuries in an intensive care unit? A systematic review and meta-analysis.	2021	International wound journal	Nieto-Garcia L and Carpio-Pérez A and Moreira-Barroso MT and Alonso-Sardón M	33236855		Mobilisation	1	Low	2	Duplicate; also -> 2202
81	A novel early mobility bundle improves length of stay and rates of readmission among hospitalized general medicine patients.	2020	Journal of community hospital internal medicine perspectives	Bergbower EAS and Herbst C and Cheng N and Aversano A and Pasqualini K and Hartline C and Hamby-Finkelshten D and Brewer C and Benko S and Fuscaldo J	33235675	not PICO	Mobilisation				
82	Effectiveness of structured early mobilization protocol on mobility status of patients in medical intensive care unit.	2020	Physiotherapy theory and practice	Gatty A and Samuel SR and Alapartha GK and Prabhu D and Upadya M and Krishnan S and Amaravati SK	33228448		Mobilisation	3		3	
83	Outcomes After Intensive Rehabilitation for Mechanically Ventilated Patients: A Nationwide Retrospective Cohort Study.	2021	Archives of physical medicine and rehabilitation	Yagi M and Morita K and Matsui H and Michihata N and Fushimi K and Koyama T and Fujitani J and Yasunaga H	33213824		Mobilisation	4		3	Duplicate; also -> 2203
84	Prone positioning in mechanically ventilated patients with severe acute respiratory distress syndrome and coronavirus disease 2019.	2021	Acta anaesthesiologica Scandinavica	Gleissman H and Forgren A and Andersson E and Lindqvist E and Lipka Palch A and Cronhjort M and Dahlberg M and Gofthner M	33165936	not PICO	Prone position				Duplicate; also -> 2106
85	Impact of a Rehabilitation Protocol and a Dedicated Therapist in the Intensive Care Unit on Physical Function and Activities of Daily Living.	2020	Progress in rehabilitation medicine	Matsuki R and Kojima N and Watanabe K and Hotta A and Kubori Y and Oura K and Morisawa T and Koyama H and Ebisu T and Hashino T	33163685		Mobilisation	4		4	
86	Prone positioning for patients intubated for severe acute respiratory distress syndrome (ARDS) secondary to COVID-19: a retrospective observational cohort study.	2021	British journal of anaesthesia	Weiss TT and Cerda F and Scott JB and Kaur R and Sungurli S and Mirza SH and Alolaiwai AA and Kaur R and Augustynovich AE and Li J	33158500	not PICO	Prone position				Duplicate; also -> 2107
87	Physical Therapist Management of COVID-19 in the Intensive Care Unit: The West China Hospital Experience.	2020	Physical therapy	Li L and Yu P and Yang M and Xie W and Huang L and He C and Gosselink R and Quan W and Jones NM	33152093	not PICO	Mobilisation				
88	Breath-synchronised electrical stimulation of the expiratory muscles in mechanically ventilated patients: a randomized controlled feasibility study and pooled analysis.	2020	Critical care (London, England)	Jonkman AH and Frenzel T and McCaughey EI and McLachlan AJ and Boswell-Ruys CL and Collins DW and Gandevia SC and Girbes ARJ and Holting O and Kox M and Oppersma E and Peters M and Pickers P and Roesthuis LH and Schouten J and Shi ZH and Veltink PH and de Vries HJ and Shannon Weickert C and Wiedenbach C and Zhang Y and Tuimman PR and de Man AME and Butler JE and Heunks LMA	33126902		NMES	2	High	3	

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89	Conscious prone positioning during non-invasive ventilation in COVID-19 patients: experience from a single centre.	2020	F1000Research	Burton-Papay HC and Jackson AIR and Beecham R and Ferrari M and Nasim-Mohi M and Grocott MPW and Chambers R and Dushianthan A	33110499	not PICO	Prone position				
90	Awake Prone Positioning in COVID-19 Hypoxemic Respiratory Failure: Exploratory Findings in a Single-center Retrospective Cohort Study.	2020	Academic emergency medicine : official journal of the Society for Academic Emergency Medicine	Padrao BMT and Valente FS and Besen BAMP and Rahhal H and Mesquita PS and de Alencar JCG and da Costa MGP and Wanderley APB and Emerenciano DL and Bortolotto FM and Fortes JCL and Marques B and de Souza SB and Marchini JFM and Neto RAB and de Souza HP	33107664	not PICO	Prone position				
91	Different physiotherapy protocols after coronary artery bypass graft surgery: A randomized controlled trial.	2021	Physiotherapy research international : the journal for researchers and clinicians in physical therapy	Ribeiro BC and Pereira JGCD and Rocha AMC and Cunha CND and Cunha KDC and Falcão LFM and Torres DDC and Rocha LSO and Rocha RSB	33103326		Mobilisation	2	High	3	Duplicate; also -> 2204
92	Critically ill COVID-19 patients attended by anesthesiologists in northwestern Spain: a multicenter prospective observational study.	2021	Revista española de anestesiología y reanimación	Taboada M and Rama P and Pita-Romero R and Moreno F and Leal S and Varela M and Cid M and Caruso V and Alvarado de la Torre S and Corujera M and Sarmiento A and Domínguez B and Díaz P and Cuyunovas L and López S and Sánchez M and Vilas E and Rodríguez A and Freire L and Domínguez S and Baluja A and Almansa PP	33077309	Language					
93	Evaluation of PEEP and prone positioning in early COVID-19 ARDS.	2020	EClinicalMedicine	Mittermaier M and Pickering P and Kurth F and de Jarcy LB and Uhrig A and Garcia C and Machielly F and Pergantis P and Wober S and Li Y and Breitbart A and Bremer F and Knappe P and Dewey M and Doellinger F and Weber-Carstens S and Slutsky AS and Kudrle WM and Suttory N and Müller-Reberly H	33073217	not PICO	Prone position				
94	Precision implementation of early ambulation in elderly patients undergoing off-pump coronary artery bypass graft surgery: a randomized-controlled clinical trial.	2020	BMC geriatrics	Cui Z and Li N and Gao C and Fan Y and Zhuang X and Liu J and Zhang J and Tan Q	33054724	not PICO	Mobilisation				
95	Early rehabilitation during extracorporeal membrane oxygenation has minimal impact on physiological parameters: A pilot randomised controlled trial.	2021	Australian critical care : official journal of the Confederation of Australian Critical Care Nurses	Hayes K and Holland AE and Pellegrino VA and Young M and Paul E and Hodgson CL	33039302		Mobilisation	4		4	Duplicate; also -> 2205
96	Awake prone positioning does not reduce the risk of intubation in COVID-19 treated with high-flow nasal oxygen therapy: a multicenter, adjusted cohort study.	2020	Critical care (London, England)	Ferrando C and Mellado-Artigas R and Gea A and Aruti E and Aldecoa C and Adali R and Ramasco F and Monedero P and Masada E and Tena-G and Herrero-Sanz ML and Mercadal J and Martyn-Grande A and Kacmarek RM and Villar J and Suñer-Sipman F	33023669		Prone position	3		3	
97	Improved Oxygenation After Prone Positioning May Be a Predictor of Survival in Patients With Acute Respiratory Distress Syndrome.	2020	Critical care medicine	Lee HY and Cho J and Kwak N and Choi SM and Lee J and Park YS and Lee CH and Yoo CG and Kim YH and Lee SM	33003079	not PICO	Prone position				
98	Evaluating the Cost-Effectiveness of the ABCDE Bundle: Impact of Bundle Adherence on Inpatient and 1-Year Mortality and Costs of Care.	2020	Critical care medicine	Collinsworth AW and Priest EL and Masica AL	33003078		Mobilisation	3		4	
99	Safety and Feasibility of Physical Rehabilitation and Active Mobilization in Patients Requiring Continuous Renal Replacement Therapy: A Systematic Review.	2020	Critical care medicine	Mayer KP and Joseph-Stang E and Robinson LE and Parry SM and Morris PE and Neyra JA	33001619		Mobilisation	1		2	
100	Physiological Changes During Prone Positioning in COVID-19 Acute Respiratory Distress Syndrome.	2020	Annals of the Academy of Medicine, Singapore	Lee RM and Tan GP and Puah SH and Ling LM and Choy CY and Chotirmail SH and Abisheganaden J and See JJ and Tan HL and Wong YL	33000116	not PICO	Prone position				
101	Acute Effects of Sitting Out of Bed and Exercise on Lung Aeration and Oxygenation in Critically Ill Subjects.	2021	Respiratory care	Hickmann CE and Montecinos-Munoz NR and Castaneres-Zapatero D and Arriagada-Garrido RS and Jera-Blanco U and Gizzatullin T and Roeseler J and Dugernier J and Wittebole X and Latre P	32994357	not PICO	Mobilisation				Duplicate; also -> 2108
102	Evaluation of Oxygenation in 129 Prone Sessions in 34 Mechanically Ventilated COVID-19 Patients.	2021	Journal of intensive care medicine	Berrilli M	32993451	not PICO	Prone position				Duplicate; also -> 2109
103	Preliminary Observations and Experiences of Physiotherapy Practice in Acute Care Setup of COVID-19: A Retrospective Observational Study.	2020	The Journal of the Association of Physicians of India	Jlandani MP and Salagre SB and Kasi Sand Iyer S and Patil P and Khot WY and Patil E and Sopariwala M	32978920	not PICO	Mobilisation				
104	[Automatic load-distributing band CPR (AutoPulse,RC) in prone position, feasible?]	2021	Der Anaesthetist	Pietsch U and Knapp J and Wenzel V and Lischke V and Albrecht R	32968843	not PICO	Prone position				
105	Voluntary Prone Position for Acute Hypoxemic Respiratory Failure in Unintubated Patients.	2020	Indian journal of critical care medicine : peer-reviewed, official publication of Indian Society of Critical Care Medicine	Rao SV and Uthayachandrar R and Rao VB and Raju NA and Nesaraj J and Kandasamy S and Samuel P	32963439	not PICO	Prone position				
106	Clinical Practice Guidelines for Early Mobilization in the ICU: A Systematic Review.	2020	Critical care medicine	Lang JK and Paykel MS and Haines KJ and Hodgson CL	32947470		Article type				
107	Effectiveness of Prone Positioning in Nonintubated Intensive Care Unit Patients With Moderate to Severe Acute Respiratory Distress Syndrome by Coronavirus Disease 2019.	2021	Anesthesia and analgesia	Taboada M and González M and Vilaverde A and González I and García J and Eras M and Vello MD and Naveira A and Otero P and Campaiza O and Munategui I and Tubio A and Costa J and Selas S and Carvitera A and Martínez A and Veiras S and Aneceros F and Caruso V and Baluja A and Alvarez J	32947292	not PICO	Prone position				
108	Successful awake proning is associated with improved clinical outcomes in patients with COVID-19: single-center high-dependency unit experience.	2020	BMI open respiratory research	Halifax RJ and Porter BM and Elder PJ and Evans SB and Turnbull CD and Hynes G and Lardner R and Archer K and Bettinson HV and Nicol AJ and Flight WS and Chapman SJ and Harding M and Hoyle RK and Saunders P and Sykes A and Wrightson JM and Moore A and Ho LP and Fraser E and Pavord ID and Talbot NP and Bafadhel M and Petousi N and Rahman NM	32928787	not PICO	Prone position				
109	Non-pharmacological interventions to reduce the incidence and duration of delirium in critically ill patients: A systematic review and network meta-analysis.	2020	Journal of critical care	Deng LX and Cao L and Zhang LH and Peng XB and Zhang L	32919363		Mobilisation	1	Low	3	
110	Rehabilitation Levels in Patients with COVID-19 Admitted to Intensive Care Requiring Invasive Ventilation: An Observational Study.	2021	Annals of the American Thoracic Society	McWilliams D and Weblin J and Hodson J and Veenith T and Whitehouse T and Snelson C	32915072	not PICO	Mobilisation				
111	Safety Assessment Criteria for Early Active Mobilization in Mechanically Ventilated ICU Subjects.	2021	Respiratory care	Yang R and Zheng Q and Zuo D and Zhang C and Cao Y	32900917		Mobilisation	1		3	Duplicate; also -> 2206
112	Effect of Electrical Muscle Stimulation on Upper and Lower Limb Muscles in Critically Ill Patients: A Two-Center Randomized Controlled Trial.	2020	Critical care medicine	Nakanishi N and Ota J and Tsutsumi R and Yamamoto T and Ueno Y and Nakatani E and Itagaki T and Sakae H and Nishimura M	32897665		NMES	2	Some concerns	2	
113	Early conscious prone positioning in patients with COVID-19 receiving continuous positive airway pressure: a retrospective analysis.	2020	BMI open respiratory research	Wineman S and Swingwood EL and Hardaker CL and Smith AM and Easton TM and Millington KJ and Hall RS and Smith A and Curtis KJ	32895247	not PICO	Prone position				
114	Ultrasound variations of diaphragm activity between prone position versus supine position in ventilated patients: a cross-sectional comparative study.	2021	Journal of ultrasound	Triß A and Abdellatif S and Abdennabi C and Daly F and Touil Y and Ben Lakhal S	32870470	not PICO	Prone position				Duplicate; also -> 2110
115	Early mobilization in clinical practice: the reliability and feasibility of the 'Start To Move' Protocol.	2020	Physiotherapy theory and practice	Hoffman M and Clerckx S and Janssen K and Segers J and Demeyers I and Fricks B and Merckx E and Hermans G and Van der Meulen I and Van Lancker T and Ceulemans N and Van Hollebeke M and Langer D and Gosselink R	32866055	not PICO	Mobilisation				Duplicate; also 2238

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116	The Safety and Effect of Early Mobilization in the Intensive Care Unit According to Cancellation Criteria.	2020	Progress in rehabilitation medicine	Sakai T and Hoshino C and Okawa A and Wakabayashi K and Shigenitsu H	32844129	not PICO	Mobilisation	5			
117	Predictive variables for poor long-term physical recovery after intensive care unit stay: An exploratory study.	2020	Acta anaesthesiologica Scandinavica	Amundadóttir vR and Jónasdóttir R and Sigvaldason K and Jónsdóttir H and Möller AD and Dean E and Sveinsson T and Sigurðsson GH	32813915	not PICO					
118	Usefulness and safety of a dedicated team to prone patients with severe ARDS due to COVID-19.	2020	Critical care (London, England)	Kimmoun A and Levy B and Chenuel B	32811555	not PICO	Prone position				
119	Questionnaires to Assess Facilitators and Barriers of Early Mobilization in Critically Ill Patients	2021	Clinical Nursing Research	Dikkema		not PICO	Mobilisation				
120	Tolerability and safety of awake prone positioning COVID-19 patients with severe hypoxemic respiratory failure.	2021	Canadian journal of anaesthesia : journal canadien d'anesthésie	Solverson K and Weatherall J and Parhar KKS	32803468	not PICO	Prone position				
121	The Face of COVID-19: Facial Pressure Wounds Related to Prone Positioning in Patients Undergoing Ventilation in the Intensive Care Unit.	2021	Otolaryngology--head and neck surgery: official journal of American Academy of Otolaryngology-Head and Neck Surgery	Jiang ST and Fang CH and Chen JT and Smith RV	32779961	Article type	Prone position				
122	Outcome of improved care bundle in acute respiratory failure patients.	2020	Nursing in critical care	Chen CM and Cheng AC and Chou W and Selvam P and Cheng CM	32767475		Mobilisation	4		4	Duplicate; also --> 2240
123	Mobility Action Group: Using Quality Improvement Methods to Create a Culture of Hospital Mobility.	2020	Journal of the American Geriatrics Society	Lorgunpai SJ and Finke B and Burrows I and Brown CJ and Rubin FH and Wiernman HR and Heisey SJ and Gartaganis S and Ling SM and Press M and Inouye SK	32757219	not PICO	Mobilisation				
124	Effects of Inspiratory Muscle Training and Early Mobilization on Weaning of Mechanical Ventilation: A Systematic Review and Network Meta-analysis.	2020	Archives of physical medicine and rehabilitation	Worraphan S and Thammata A and Chittawatanarak K and Sackaew S and Kengka K and Prasannarong M	32750371		Mobilisation	1	Low	1	
125	Prone Position of Patients With COVID-19 and Acute Respiratory Distress Syndrome.	2020	Journal of perioperative nursing: official journal of the American Society of PeriAnesthesia Nurses	Flynn Makic MB	32741521	Article type	Prone position				
126	Prone Positioning for Severe Acute Respiratory Distress Syndrome in COVID-19 Patients by a Dedicated Team: A Safe and Pragmatic Reallocation of Medical and Surgical Work Force in Response to the Outbreak.	2020	Annals of surgery	Doussot A and Ciceron F and Cerutti E and Salomon du Mont L and Thines L and Capellier G and Pretali JB and Evard P and Vettoretti L and Garbuio P and Brunel AS and Pili-Floury S and Lakkis Z	32740251	not PICO	Prone position				
127	Early Mobilization in People With Acute Cardiovascular Disease.	2021	The Canadian journal of cardiology	Semur-Kazerooni K and Dima D and Valiquette J and Berube-Dufour J and Goldfarb M	32739452		Mobilisation	4		4	Duplicate; also --> 2207
128	Effects of early mobilization on the prognosis of critically ill patients: A systematic review and meta-analysis.	2020	International journal of nursing studies	Wang J and Ren D and Liu Y and Wang Y and Zhang B and Xiao Q	32736250		Mobilisation	1	Low	1	
129	Adenovirus-associated Acute Respiratory Distress Syndrome: Need for a Protocol-based Approach.	2020	Indian journal of critical care medicine: peer-reviewed, official publication of Indian Society of Critical Care Medicine	Vashisht R and Mirza S and Koval C and Duggal A	32728333	not PICO					
130	Walking While Dialyzing: A Retrospective Observation of Early Mobility and Ambulation for Patients on Continuous Renal Replacement Therapy.	2020	Critical care explorations	Bento HA and Dummer D and Lohse BD and Noren C and Tonna JE	32695996		Mobilisation	4		4	
131	The Effects of Early Mobilization on Patients Requiring Extended Mechanical Ventilation Across Multiple ICUs.	2020	Critical care explorations	Escalon MX and Lichtenstein AH and Posner E and Spielman L and Delgado A and Kolakowsky-Hayner SA	32695988		Mobilisation	4		4	
132	Intervention effect of neuromuscular electrical stimulation on ICU acquired weakness: A meta-analysis.	2020	International journal of nursing sciences	Liu M and Luo J and Zhou J and Zhu X	32685621		NMES	1	Unclear	1	
133	Very early exercise tailored by decisional algorithm helps relieve discomfort in ICU patients: an open-label pilot study.	2020	European journal of physical and rehabilitation medicine	Laurent H and Auberton S and Vallat A and Pereira B and Souweine B and Constantin JM and Coudeyre E	32667148	not PICO	Mobilisation				
134	Nursing issues in enteral nutrition during prone position in critically ill patients: A systematic review of the literature.	2020	Intensive & critical care nursing	Bruni A and Garofalo E and Grande L and Auletta G and Cubello D and Greco M and Lombardo N and Garlier P and Papaleo A and Doldo P and Spagnuolo R and Longhini F	32641217	not PICO	Prone position				
135	The Efficacy and Safety of In-Intensive Care Unit Leg-Cycle Ergometry in Critically Ill Adults. A Systematic Review and Meta-analysis.	2020	Annals of the American Thoracic Society	Takaoka A and Uygur K and Ruchberg B and Cook DJ and Kho ME	32628501		Tools	1	Low	2	
136	Effect of in-bed cycling on acute muscle wasting in critically ill adults: A randomised clinical trial.	2020	Journal of critical care	Nickels MR and Aitken LM and Barnett AG and Walsham J and King S and Gale NE and Bowen AC and Peel BM and Donaldson SL and Mealing STJ and McPhail SM	32585438		Tools	2	Some concerns	3	
137	Impact of Early Passive Exercise With Cycle Ergometer on Ventilator Interaction.	2020	Respiratory care	Silva JR and Ribeiro NM and Bergamini BC and Netto CB and Vieira RS and Pinto SP and Fonseca LM and Pinheiro BV	32576704	not PICO	Tools				
138	Prone positioning in COVID-19 acute respiratory failure: just do it?	2020	British journal of anaesthesia	McNicholas B and Cosgrave D and Giacomini C and Brennan A and Laffey JG	32571573	not PICO	Prone position				
139	Feasibility and physiological effects of prone positioning in non-intubated patients with acute respiratory failure due to COVID-19 (PRON-COVID): a prospective cohort study.	2020	The Lancet. Respiratory medicine	Coppa A and Bellani G and Witterton D and Di Piero M and Soria A and Favero P and Cairo M and Mori S and Mesinesi G and Contro E and Bonfanti P and Benini A and Valacchi MG and Antolini L and Foti G	32569585	not PICO	Prone position				
140	Awake prone positioning in COVID-19.	2020	Thorax	Koecklering D and Barker J and Mudalige NL and Oyefeso O and Pan D and Pareek M and Thompson JP and Ng GA	32546571	not PICO	Prone position				
141	Prevention of pressure ulcers among individuals cared for in the prone position: lessons for the COVID-19 emergency.	2020	Journal of wound care	Moore Z and Patton D and Astar P and McEvoy NL and Curley G and Budri A and Nugent L and Walsh S and O'Connor T	32530776	not PICO	Prone position				
142	The Place of Early Rehabilitation in Intensive Care Unit for COVID-19.	2020	American journal of physical medicine & rehabilitation	Masiero S and Zampieri D and Del Felice A	32467490	Article type	Mobilisation				
143	Duration of prone position sessions: a prospective cohort study.	2020	Annals of intensive care	Jochmans S and Mazerand S and Chelly J and Pourcine F and Sy O and Thieulot-Rolin N and Elbroit O and Mercier Des Rochettes E and Michaud G and Serbouche-Goguel J and Vinsonneau C and Yong LVP and Monchi M	32449068		Prone position	3		3	
144	Early Mobilization in the ICU: A Collaborative, Integrated Approach.	2020	Critical care explorations	Linke CA and Chapman LB and Berger LJ and Kelly TL and Korpela CA and Petty MG	32426732		Mobilisation	4		4	
145	Steps to recovery: body weight-supported treadmill training for critically ill patients: a randomized controlled trial.	2020	Trials	Kwakman RH and Sommers J and Horn J and Nollet F and Engelbert RHH and van der Schaaf M	32414411	Article type					
146	Administration of enteral nutrition in the prone position, gastric residual volume and other clinical outcomes in critically ill patients: a systematic review.	2020	Revista Brasileira de terapia intensiva	Machado LS and Rizzi P and Silva FM	32401992	not PICO					
147	The Effect of Lotus Position on Dyspnoea Management in Intensive Care Unit.	2020	JPMA: The Journal of the Pakistan Medical Association	Kocatepe V and Yildirim D and Can G and Bahcedi E	32400734	not PICO					
148	Early Mobilization Interventions in the Intensive Care Unit: Ongoing and Unpublished Randomized Trials.	2020	Critical care research and practice	Maheswaran J and Fromowitz J and Goldfarb M	32399292	Article type					
149	The Effect of Semirecumbent and Right Lateral Positions on the Gastric Residual Volume of Mechanically Ventilated, Critically Ill Patients.	2020	The journal of nursing research : JNR	Farsi Z and Kamali M and Butler S and Zareyan A	32398578	not PICO					
150	Exercise is feasible in patients receiving vasoactive medication in a cardiac surgical intensive care unit: A prospective observational study.	2020	Australian critical care: official journal of the Confederation of Australian Critical Care Nurses	Boyd J and Paratz J and Tronstad O and Caruana L and Walsh J	32349888		Mobilisation	3		4	
151	Effects of Rehabilitation Interventions on Clinical Outcomes in Critically Ill Patients: Systematic Review and Meta-Analysis of Randomized Controlled Trials.	2020	Critical care medicine	Waldau P and Jiroutkova K and Kraljicov A and Puthucherry Z and Durkha F	32345834		Mobilisation	1	Low	1	Duplicate; also --> 2209 & 2243
152	Acceptability, safety, and feasibility of in-bed cycling with critically ill patients.	2020	Australian critical care: official journal of the Confederation of Australian Critical Care Nurses	Nickels MR and Aitken LM and Barnett AG and Walsham J and McPhail SM	32317212	not PICO					
153	Positioning immobile critically ill patients who are at risk of pressure injuries using a purpose-designed positioning device and usual care equipment: An observational feasibility study.	2020	International wound journal	Sousa I and Kapp S and Santamaría N	32304347	not PICO					
154	Relationship between Use of Rehabilitation Resources and ICU Readmission and ER Visits in ICU Survivors: the Korean ICU National Data Study 2008-2015.	2020	Journal of Korean medical science	Park YH and Ko RE and Kang D and Park J and Jeon K and Yang H and Park CM and Cho J and Park YS and Park H and Cho J and Guallar E and Suh GY and Chung CR	32301293	not PICO					

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155	Acute effect of passive cycle-ergometry and functional electrical stimulation on nitrosative stress and inflammatory cytokines in mechanically ventilated critically ill patients: a randomized controlled trial.	2020	Brazilian journal of medical and biological research = Revista brasileira de pesquisas medicas e biologicas	Franca EET and Gomes JPV and De Lira JMB and Amarel TCN and Vilela AF and Paiva Jvfnior MDS and Elihams Jvfnior UF and Correia Jvfnior MAV and Forgiarini Jvfnior LA and Costa MIC and Andrade MA and Ribeiro LC and De Castro CMMB	32294698		NMES	2	High	3	
156	Impact of a Progressive Mobility Program on the Functional Status, Respiratory, and Muscular Systems of ICU Patients: A Randomized and Controlled Trial.	2020	Critical care medicine	Schjumann DS and Teixeira Gomes T and Lunardi AC and Zoccoler Lamano M and Frago A and Pimentel M and Peto CN and Araujo P and Fu C	32205595		Mobilisation	2	Low	2	
157	Patient and Family Centered Actionable Processes of Care and Performance Measures for Persistent and Chronic Critical Illness: A Systematic Review.	2019	Critical care explorations	Rose L and Istamboulian L and Allum L and Burry L and Dale C and Hart N and Kydonaki K and Ramsay P and Pattison N and Connolly B	32166252	not PICO					
158	Community Experience With Acute Respiratory Distress Syndrome in the Prone Position.	2019	Critical care explorations	Khan F and Fister CR and Muel J and Caplan R and Vest MT	32166249	not PICO	Prone position				
159	Factors Associated With Discharge Home Among Medical ICU Patients in an Early Mobilization Program.	2019	Critical care explorations	Kim RY and Murphy TE and Doyle M and Pulaski C and Singh M and Tiang S and Wicker D and Pisani MA and Connors GR and Ferrante LE	32166241		Mobilisation	4		4	
160	Use of in-bed cycling combined with passive joint activity in acute respiratory failure patients receiving mechanical ventilation.	2020	Annals of palliative medicine	Yu L and Jiang X and Zhang Y and Chen YZ and Shi Y	32156142		Tools	2	High	3	
161	Organizational structures and early mobilization practices in South African public sector intensive care units: A cross-sectional study.	2021	Journal of evaluation in clinical practice	Tadyanemhandu C and van Aawegen H and Mtsiea V	32141685	not PICO					
162	Early rehabilitation reduces the likelihood of developing intensive care unit-acquired weakness: a systematic review and meta-analysis.	2020	Physiotherapy	Anekwe DE and Biwas S and Bussivres A and Spahija J	32135387		Mobilisation	1	Low	1	
163	The Feasibility and Acceptability of Virtual Therapy Environments for Early ICU Mobilization.	2020	PM & R: the journal of injury, function, and rehabilitation	Parke S and Hough CL and E Bunnell A	32107863	not PICO		4		5	
164	Therapeutic Evaluation of Computed Tomography Findings for Efficacy of Prone Ventilation in Acute Respiratory Distress Syndrome Patients with Abdominal Surgery.	2020	Journal of critical care medicine (Universitatea de Medicina si Farmacie din Targu-Mures)	Akatsuka M and Tatsumi H and Yama N and Masuda Y	32104729	not PICO					
165	Delirium prevalence and prevention in patients with acute brain injury: A prospective before-and-after intervention study.	2020	Intensive & critical care nursing	Larsen LK and Mvjtller K and Petersen M and Egerod I	32089416	not PICO					
166	Patterns of Use of Adjunctive Therapies in Patients With Early Moderate to Severe ARDS: Insights From the LUNG SAFE Study.	2020	Chest	Duggal A and Kozogli E and Pham T and McNicholas BA and Fan L and Bellani G and Rubenfeld G and Pesenti AM and Laffey JG	32088180	not PICO					
167	Early mobilization in neurocritical care patients.	2020	Current opinion in critical care	Kumar MA and Romero FG and Dharaeswaran K	32068582	Article type					
168	How patient migration in bed affects the sacral soft tissue loading and thereby the risk for a hospital-acquired pressure injury.	2020	International wound journal	Lutitz M and Wiggemann N and Gefen A	32048476	not PICO					
169	Influence of head-of-bed elevation on the measurement of inferior vena cava diameter and collapsibility.	2020	Journal of clinical ultrasound : JCU	Bondarsky E and Rothman A and Ramesh N and Love A and Kory P and Lee Yi	32017142	not PICO					
170	Efficacy and safety of early prone positioning combined with HFNC or NIV in moderate to severe ARDS: a multi-center prospective cohort study.	2020	Critical care (London, England)	Ding L and Wang L and Ma W and He H	32000806		Prone position	3		4	
171	Effects of cycle ergometer use in early mobilization following cardiac surgery: a randomized controlled trial.	2020	Clinical rehabilitation	Gama Lordello GG and Goncalves Gama GG and Lago Rosier G and Viana PADC and Correia LC and Fonteles Ritt LE	31994405		Tools	2	Some concerns	2	
172	The Clinical Effect of an Early, Protocolized Approach to Mechanical Ventilation for Severe and Refractory Hypoxemia.	2020	Respiratory care	Gallo de Moraes A and Holets SR and Tescher AN and Elmer J and Arteaga GM and Schears G and Patch RK and Bohman JK and Decker RA	31992664	not PICO					
173	Physical Exercise Combined With CPAP in Subjects Who Underwent Surgical Myocardial Revascularization: A Randomized Clinical Trial.	2020	Respiratory care	Windmoller P and Bodnar E and Canigralde J and Dallazen F and Schneider J and Berwanger SA and Borghi-Silva A and Winkelmann ER	31988253		Tools	2	some concerns	2	
174	Impact of an early mobilization protocol on outcomes in trauma patients admitted to the intensive care unit: A retrospective pre-post study.	2020	The journal of trauma and acute care surgery	Coles SJ and Erdogan M and Higgins SD and Green RS	31972758		Mobilisation	4		4	
175	Rehabilitation through virtual reality: physical activity of patients admitted to the intensive care unit.	2019	Revista Brasileira de terapia intensiva	Gomes TT and Schjumann DS and Fu C	31967219	Language					
176	Brazilian Guidelines for Early Mobilization in Intensive Care Unit.	2019	Revista Brasileira de terapia intensiva	Aquim EE and Bernardo WM and Buzzini RF and Azeredo NSG and Cunha LSD and Damasceno MCP and Deucher RAO and Duarte ACM and Librelato JT and Melo-Silva CA and Nemer SR and Silva SDFD and Verona C	31967216		Mobilisation	1	5	2	
177	Safety, Feasibility, and Efficacy of Early Rehabilitation in Patients Requiring Continuous Renal Replacement: A Quality Improvement Study.	2020	Kidney international reports	Mayer KP and Hornsby AR and Soriano VO and Lin TC and Cunningham JT and Yuan H and Hauschild CE and Morris PE and Neyra JA	31922059			4		4	
178	The Economic and Clinical Impact of an Early Mobility Program in the Trauma Intensive Care Unit: A Quality Improvement Project.	2020	Journal of trauma nursing: the official journal of the Society of Trauma Nurses	Falkenstein BA and Skalikowski CK and Lodise KD and Moore M and Olkowski BF and Rojavin Y	31895316	not PICO					
179	Effect of Multi-Frequency Whole-Body Vibration on Muscle Activation, Metabolic Cost and Regional Tissue Oxygenation.	2020	IEEE access: practical innovations, open solutions	Saxena H and Ward KR and Krishnan C and Eperanu BI	34036017	not PICO					
180	Prone ventilation in H1N1 virus-associated severe acute respiratory distress syndrome: A case series.	2019	International journal of critical illness and injury science	Sahoo JN and Gurjar M and Mohanty K and Majhi K and Sradhanjali G	31879605	Article type					
181	Early versus delayed mobilization for in-hospital mortality and health-related quality of life among critically ill patients: a systematic review and meta-analysis.	2019	Journal of intensive care	Okada Y and Unoki T and Matsushige Y and Egawa Y and Hayashida K and Inoue S	31867111		Mobilisation	1	Low	1	
182	The effectiveness of multicomponent pressure injury prevention programs in adult intensive care patients: A systematic review.	2020	International journal of nursing studies	Lin F and Wu Z and Song B and Coyer F and Chaboyer W	31835122	not PICO					
183	Turning Things Around: The Role of Prone Positioning in the Management of Acute Respiratory Failure After Cardiac Surgery.	2020	Journal of cardiothoracic and vascular anesthesia	Saha S and Jebran AF and Leistner M and Kutschka I and Niehaus H	31812562		Prone position	4		4	
184	Determinants of gait independence after mechanical ventilation in the intensive care unit: a Japanese multicenter retrospective exploratory cohort study.	2019	Journal of intensive care	Watanabe S and Kotani T and Taito S and Ota K and Ishii K and Ono M and Katsukawa H and Kozu R and Morita Y and Arakawa R and Suzuki S	31798888	not PICO					
185	Prone Position in Acute Respiratory Distress Syndrome Patients: A Retrospective Analysis of Complications.	2020	Dimensions of critical care nursing : DCCN	Lucchini A and Bambi S and Mattiussi E and Elli S and Villa L and Bondi H and Rona R and Fumagalli R and Foti G	31789984		Prone position	4		4	
186	Continuous lateral rotational therapy in thoracic trauma-A matched pair analysis.	2020	Injury	Schieren M and Wappler F and Klodt D and Sakka SG and Leftering R and Vjckjer V and Defosse J	31757469		Positioning	4		4	
187	Caloric consumption during early mobilisation of mechanically ventilated patients in Intensive Care Units.	2020	Clinical nutrition (Edinburgh, Scotland)	Nyathi P and Schuchhardt D and Jyffter F and Dubb B and Hermes C and Kalthwasser A and Mende H and Mviller-Wolff T and Rothaug O and Schreiber T	31732289	not PICO					
188	Effects of the ABCDE bundle on the prevention of post-intensive care syndrome: A retrospective study.	2020	Journal of advanced nursing	Lee Y and Kim K and Lim C and Kim JS	31729768	not PICO					
189	ICU rehabilitation is associated with reduced long-term mortality from sepsis in patients with low skeletal muscle mass: a case control study.	2019	Annals of translational medicine	Kim T and Huh S and Kim SY and Han J and Lee SE and Cho WH and Kim YS and Jeon DS and Yeo HJ	31700866		Mobilisation	4		4	
190	Factors Affecting Discharge to Home of Medical Patients Treated in an Intensive Care Unit.	2019	International journal of environmental research and public health	Shimogai T and Izawa KP and Kawada M and Kuriyama A	31698814		Mobilisation	4		4	
191	The effects of different positions on saturation and vital signs in patients.	2021	Nursing in critical care	Alan R and Khorrami L	31659840	not PICO					
192	Scaling-up implementation in community hospitals: a multi-site interrupted time series design of the Mobilization of Vulnerable Elders (MOVE) program in Alberta.	2019	BMC geriatrics	Holroyd-Leduc J and Harris C and Hamid JS and Ewusi JE and Quirk J and Oslowy K and Moore JE and Khan S and Liu B and Straus SE	31653204	not PICO					
193	Exercise interventions are delayed in critically ill patients: a cohort study in an Australian tertiary intensive care unit.	2020	Physiotherapy	Nickels MR and Aitken LM and Walsham J and Crampton LJ and Barnett AG and McPhail SM	31648779	not PICO					
194	What is the optimum time for initiation of early mobilization in mechanically ventilated patients? A network meta-analysis.	2019	PloS one	Ding N and Zhang Z and Zhang C and Yao L and Yang L and Jiang B and Wu Y and Jiang L and Tian J	31589642		Mobilisation	1	Low	1	

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195	Early mobilization of critically ill patients in the intensive care unit: A systematic review and meta-analysis.	2019	PloS one	Zhang L and Hu W and Cai Z and Liu J and Wu J and Deng Y and Yu K and Chen X and Zhu L and Mei and Qin Y	31581205		Mobilisation	1	Low	1	
196	Early Therapeutic Mobility and Changes in Scores for Pain and Fatigue.	2019	Critical care nurse	Winkelman C and Sattar A and Momtaz H and Johnson KD and Morris P and Feeney S and Levine A	31575592	not PICO					
197	Impact of Nutrition Therapy and Rehabilitation on Acute and Critical Illness: A Systematic Review.	2019	Journal of UOEH	Kou K and Momosaki R and Miyazaki S and Wakabayashi H and Shimoto H	31548485	not PICO					
198	Efficacy of belt electrode skeletal muscle electrical stimulation on reducing the rate of muscle volume loss in critically ill patients: A randomized controlled trial.	2019	Journal of rehabilitation medicine	Nakamura K and Kitata A and Naraba H and Kanda N and Takahashi Y and Sonoo T and Hashimoto H and Morimura N	31544949		NMES	2	Some concerns	3	
199	An Established Early Rehabilitation Therapy Demonstrating Higher Efficacy and Safety for Care of Intensive Care Unit Patients.	2019	Medical science monitor : international medical journal of experimental and clinical research	Pang Y and Li H and Zhao L and Zhang C	31537777		Mobilisation	2	High	4	
200	Feasibility, safety, and functional recovery after active rehabilitation in critically ill surgical patients.	2020	Australian critical care : official journal of the Confederation of Australian Critical Care Nurses	Seo Y and Park SB and Lee JH and Jung C and Choi KH and Hong SK and Kim W	31522973		Mobilisation	4		4	
201	Differential contractile response of critically ill patients to neuromuscular electrical stimulation.	2019	Critical care (London, England)	Grunow JJ and Goll M and Carbon NM and Liebl ME and Weber-Carstens S and Wollersheim T	31506074		NMES	4		4	
202	Exercise Physiologists: Key to Providing Early Mobilization in the Intensive Care Unit.	2019	American journal of critical care : an official publication, American Association of Critical Care Nurses	Smith CD and Grami P and Haseeb C and Ababio Y	31474609	not PICO					
203	Mobilization practices for patients with burn injury in critical care.	2020	Burns : journal of the International Society for Burn Injuries	de Figueiredo TB and Utsunomiya KF and de Oliveira AMR and Pires-Reto RC and Tanaka C	31466922		Mobilisation	3		3	
204	Nonpharmacologic Interventions to Prevent or Mitigate Adverse Long-Term Outcomes Among ICU Survivors: A Systematic Review and Meta-Analysis.	2019	Critical care medicine	Genze WW and van den Boogaard M and van der Hoeven JG and Vermeulen H and Hannink G and Zegers M	31464769	not PICO					
205	The effect of adding TENS to stretch on improvement of ankle range of motion in inactive patients in intensive care units: a pilot trial.	2019	BMC sports science, medicine & rehabilitation	Shamsi M and Vaisi-Raygani A and Rostami A and Mirzaei M	31428432	not PICO					
206	Personalised mechanical ventilation tailored to lung morphology versus low positive end-expiratory pressure for patients with acute respiratory distress syndrome in France (the LIVE study): a multicentre, single-blind, randomised controlled trial.	2019	The Lancet. Respiratory medicine	Constantin JM and Jabboud M and Lefrant JV and Jaber S and Quenot JP and Langeron O and Ferrand V and Grelon F and Seguin P and Ichai C and Weber B and Souweire B and Uberti T and Lasocki S and Leguy F and Leone M and Eisenmann N and Dahyot-Fizelier C and Dupont H and Aehnoune K and Sossou A and Chanques G and Muller L and Bazin JE and Monseil A and Borot L and Garcler JM and Roubly JJ and Pereira B and Futier E	31399381	not PICO					
207	Integrating Safe Patient Handling and Early Mobility: Combining Quality Initiatives.	2020	Journal of nursing care quality	Wyatt S and Macci K and Arnold M	31306238	not PICO					
208	Effect of Prone Positioning on Intracardiac Pressure in Patients With Acute Respiratory Distress Syndrome.	2019	Critical care medicine	Saran S and Gurjar M and Kanaujia V and Ghosh PS and Gupta A and Mishra P and Azim A and Poddar B and Baronia A and Singh R	31305498	not PICO					
209	Guidelines on the management of acute respiratory distress syndrome.	2019	BMI open respiratory research	Griffiths MD and McAuley DF and Perkins GD and Barrett N and Blackwood B and Boyle A and Chee N and Connolly B and Dark P and Finney S and Salam A and Silversides J and Tarmey N and Wise MP and Boudouin SV	31258917		Prone position	1	6	1	
210	The effect of early mobilization in critically ill patients: A meta-analysis.	2020	Nursing in critical care	Zang K and Chen B and Wang M and Chen D and Hui L and Guo S and Ji T and Shang F	31219229		Mobilisation	1	Low	1	
211	A Progressive Early Mobilization Program Is Significantly Associated With Clinical and Economic Improvement: A Single-Center Quality Comparison Study.	2019	Critical care medicine	Liu K and Ogura T and Takahashi K and Nakamura M and Ohtake H and Fujiduka K and Abe E and Osaki H and Miyazaki D and Suzuki H and Nishikimi M and Komatsu M and Leber AK and Mato T	31162197		Mobilisation	4		4	
212	Effects of neuromuscular electrical stimulation in critically ill patients: A systematic review and meta-analysis of randomised controlled trials.	2020	Australian critical care : official journal of the Confederation of Australian Critical Care Nurses	Zayed Y and Khairi B and Barbarawi M and Chahine A and Rashdan I and Chintalapati S and Bachue G and Al-Sonourti	31160215		NMES	1	Low	1	Duplicate; also --> 2208
213	Joint contractures in severe burn patients with early rehabilitation intervention in one of the largest burn intensive care unit--in China: a descriptive analysis.	2019	Burns & trauma	Tan J and Chen J and Zhou J and Song H and Deng H and Ao M and Luo G and Wu J	31139664	not PICO					
214	PROtocol-based MOBilization on intensive care units: stepped-wedge, cluster-randomized pilot study (Pro-Motion).	2020	Nursing in critical care	Nydhall P and Gvnerther U and Diers A and Hesse S and Kerschenteiner C and Klamann S and Borilowsky C and Kolbigs S	31125163		Mobilisation	2	High	4	
215	Safety and potential benefits of physical therapy in adult patients on extracorporeal membrane oxygenation support: a systematic review.	2019	Revista Brasileira de terapia intensiva	Ferreira DDC and Marcolino MAZ and Macagnan FE and Plentz RDM and Kessler A	31090853		Mobilisation	1		5	
216	Effectiveness of an early mobility protocol for stroke patients in intensive Care Unit.	2019	Neurosciences (Riyadh, Saudi Arabia)	Alamri MS and Waked IS and Amin FM and Al-Quilifi KW and Manzar MD	31056538	not PICO		4		5	
217	Introducing early and structured rehabilitation in critical care: A quality improvement project.	2019	Intensive & critical care nursing	McWilliams D and Snelton C and Goddard W and Attwood B	31056235	not PICO		4		4	
218	Muscle wasting and function after muscle activation and early protocol-based physiotherapy: an explorative trial.	2019	Journal of cachexia, sarcopenia and muscle	Wollersheim T and Grunow JJ and Carbon NM and Haas K and Malleke J and Ramme SF and Schneider J and Spies CD and Myrdian S and Mai K and Spuler S and Fietz J and Weber-Carstens S	31016887		NMES	2	Some concerns	2	
219	Staged Implementation of Awakening and Breathing, Coordination, Delirium Monitoring and Management, and Early Mobilization Bundle Improves Patient Outcomes and Reduces Hospital Costs.	2019	Critical care medicine	Hsieh SI and Otusanya O and Gershengorn HB and Hope AA and Dayton C and Levi D and Garcia M and Prince D and Mills M and Fein D and Colman S and Gong MN	30985390		Mobilisation	3		3	
220	Cycle ergometer training vs resistance training in ICU-acquired weakness.	2019	Acta neurologica Scandinavica	Veldema J and BVöl K and Kugler P and Ponfick M and Gdynia HJ and Nowak DA	30977897	not PICO					
221	Multicentre pilot randomised clinical trial of early in-bed cycle ergometry with ventilated patients.	2019	BMI open respiratory research	Kho ME and Molloy AJ and Clarke FJ and Reid JC and Herdridge MS and Karachi T and Rochweg B and Fox-Robichaud AE and Seely AJ and Mathur S and Le V and Burns KE and Ball JM and Pelizzari JR and Tarride JE and Rudkowski JC and Koo K and Heels-Ansdell D and Cook DJ	30956804	not PICO					
222	[Continuous lateral rotational bed therapy in patients with traumatic lung injury: an analysis from the TraumaRegister DGU-4].	2020	Medizinische Klinik, Intensivmedizin und Notfallmedizin	Defosse J and Griesemann J and Gerbershagen MU and Paffrath T and Bvöhmer A and Joppich R and Lefering R and Wappler F and Schieren M	30923850		Positioning	4		4	
223	Does volatile sedation with sevoflurane allow spontaneous breathing during prolonged prone positioning in intubated ARDS patients? A retrospective observational feasibility trial.	2019	Annals of intensive care	Heider J and Bantsch J and Kaufmann K and Heinrich S and Lopp T and Kalbhenn J	30911854	not PICO					
224	Critical Care Beds With Continuous Lateral Rotation Therapy to Prevent Ventilator-Associated Pneumonia and Hospital-Acquired Pressure Injury: A Cost-effectiveness Analysis.	2021	Journal of patient safety	Kang SY and DiStefano MJ and Vohia F and Koszka MV and Padula WV	30896557	not PICO					Duplicate; also --> 2111
225	Determination of the Effects of Prone Position on Oxygenation in Patients with Acute Respiratory Failure Under Mechanical Ventilation in ICU.	2018	Journal of medicine and life	Jahani S and Hajivand Soleymani Z and Asadizadeh M and Soltani F and Cheraghian B	30894882		Prone position	4		4	
226	Effects of a physiotherapeutic program in patients on veno-venous extracorporeal membrane oxygenation: an 8-year single-center experience.	2019	Minerva anesthesiologica	Bonizzato M and Luzzati C and Drago A and Tadini Boninsegni L and Donati M and Di Valvasone S and Pesenti A and Peris A	30871301		Mobilisation	4		5	
227	An Early Tailored Approach Is the Key to Effective Rehabilitation in the Intensive Care Unit.	2019	Archives of physical medicine and rehabilitation	Charicri A and Andreelli E and Serpelli O and Andreolini M and Tedesco S and Pomponio G and Gallo MM and Martini C and Papa R and Coccia M and Cervololo MG	30796918		Mobilisation	4		4	

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228	Effectiveness of early rehabilitation on patients with chronic obstructive lung disease and acute respiratory failure in intensive care units: A case-control study.	2019	Chronic respiratory disease	Chou W and Lai C and Cheng KC and Yuan KS and Chen CM and Cheng AC	30789023		Mobilisation	4		4	
229	The effects of early neurodevelopmental Bobath approach and mobilization on quadriceps muscle thickness in stroke patients.	2019	Turkish journal of medical sciences	Güçlü Gündüz A and Yağcıoğlu G and Vliksul Vİ and Kırılmaz H and Batur Hıdıroğlu HZ and Naıfeli B	30761855	not PICO					
230	Effects of Electrical Muscle Stimulation in Subjects Undergoing Prolonged Mechanical Ventilation.	2019	Respiratory care	Chen YH and Hsiao HF and Li LF and Chen NH and Huang CC	30723168	not PICO					
231	Mechanical Ventilation and Extracorporeal Membrane Oxygenation in Acute Respiratory Insufficiency.	2018	Deutsches Arzteblatt international	Fichtner F and Moerer D and Laudi S and Weber-Carstens S and Notherker M and Kaisers U	30722839	not PICO					
232	Interactive video games for rehabilitation in the intensive care unit: A pilot study.	2019	Journal of critical care	Hendriks MMC and Buise MP	30690431	not PICO					
233	Early mobilisation in mechanically ventilated patients: a systematic integrative review of definitions and activities.	2019	Journal of intensive care	Clarissa C and Salisbury L and Rodgers S and Kean S	30680218	not PICO					
234	Interventions for the management and prevention of sarcopenia in the critically ill: A systematic review.	2019	Journal of critical care	Trethwey SP and Brown N and Gao F and Turner AM	30673625		NMES	1		2	
235	Feasibility, Reliability, Responsiveness, and Validity of the Patient-Reported Functional Scale for the Intensive Care Unit: A Pilot Study.	2020	Journal of intensive care medicine	Reid JC and Clarke F and Cook DJ and Molloy A and Rudkowski JC and Stratford P and Kho ME	30669936	not PICO					
236	Influence of the initial level of consciousness on early, goal-directed mobilization: a post hoc analysis.	2019	Intensive care medicine	Schaller SJ and Scheffenbichler FT and Bose S and Maswi N and Deng H and Krebs F and Sellenet CL and Kasotakis G and Grabli SD and Latronico N and Houlet T and Blobner M and Ekermann M	30666366		Mobilisation	3		3	
237	Safety and Feasibility of Early Mobilization in Patients with Subarachnoid Hemorrhage and External Ventricular Drain.	2019	Neurocritical care	Young B and Moyer M and Pino W and Kung D and Zager E and Kumar MA	30659467		Mobilisation	4		4	
238	Early mobilisation in intensive care during renal replacement therapy: A quality improvement project.	2019	Intensive & critical care nursing	Ragland C and Ochoa L and Hartjes T	30642773		Mobilisation	4		4	
239	Relationship between Ventilator-Associated Events and Timing of Rehabilitation in Subjects with Emergency Tracheal Intubation at Early Mobilization Facility.	2018	International journal of environmental research and public health	Shinoda T and Nishihara H and Shimogai T and Ito T and Takimoto R and Seo K and Kanai M and Iwata KP and Iwata K	30562993	not PICO					
240	Evaluation of a fluidised positioner to reduce occipital pressure injuries in intensive care patients: A pilot study.	2019	International wound journal	Barakat-Johnson M and Lai M and Gefen A and Coyer F	30560571	not PICO					
241	Physical rehabilitation interventions in the intensive care unit: a scoping review of 117 studies.	2018	Journal of intensive care	Reid JC and Unger J and McCaskell D and Childerhouse L and Zurlo DJ and Kho ME	30555705	Article type					
242	Influence of Nutritional Management and Rehabilitation on Physical Outcome in Japanese Intensive Care Unit Patients: A Multicenter Observational Study.	2019	Annals of nutrition & metabolism	Yatabe T and Egi M and Sakaguchi M and Ito T and Inagaki N and Kato H and Kaminohara J and Konishi A and Takahashi M and Tsumi H and Tobe M and Nakashima I and Nakamoto N and Nishimura T and Nitta M and Nishimura M	30541003		Mobilisation	3		3	
243	The effectiveness of non-pharmacological interventions in reducing the incidence and duration of delirium in critically ill patients: a systematic review and meta-analysis.	2019	Intensive care medicine	Bannon L and McGaughey J and Verghis R and Clarke M and McAuley DF and Blackwood B	30506354	not PICO					
244	A team approach to the introduction of safe early mobilisation in an adult critical care unit.	2018	BMI open quality	Chohan S and Ahs S and Senior L	30515467		Mobilisation	4		5	
245	Ambulation capacity and functional outcome in patients undergoing neuromuscular electrical stimulation after cardiac valve surgery: A randomised clinical trial.	2018	Medicine	Fontes Cerqueira TC and Cerqueira Neto ML and Cacao LAP and Oliveira GU and Silva Vjunior WMD and Carvalho VO and Mendonça JT and Santana Filho VJ	30431575	not PICO					
246	Effects of early, combined endurance and resistance training in mechanically ventilated, critically ill patients: A randomised controlled trial.	2018	PloS one	Eggmann S and Verra ML and Luder G and Takala J and Jakob SM	30427933		Mobilisation	2	Low	2	
247	Effect of Transcutaneous Electrical Neuromuscular Stimulation on Myopathy in Intensive Care Patients.	2018	American journal of critical care: an official publication, American Association of Critical-Care Nurses	Koutsoumpa E and Makris D and Theochari A and Bagka D and Stathakis S and Manoulakas E and Spantzos M and Zakynthinos E	30385541		NMES	2	High	3	
248	Early mobilization practices of mechanically ventilated patients: a 1-day point-prevalence study in southern Brazil.	2018	Clinics (Sao Paulo, Brazil)	Fontela PC and Lisboa TC and Forgairini-Vjunior LA and Friedman G	30379221	not PICO					
249	Early Progressive Mobilization of Patients with External Ventricular Drains: Safety and Feasibility.	2019	Neurocritical care	Yataco RA and Arnold SM and Brown SM and David Freeman W and Carmen Cononie C and Heckman MG and Partridge LW and Stucky CM and Mellon LN and Birst JL and Daron KL and Zapata-Cooper MH and Schudlich DM	30357597			4		4	
250	Quantifying postoperative mobilisation following oesophagectomy.	2019	Physiotherapy	Hussey JM and Yang T and Dowds J and O'Connor L and Reynolds JV and Guinan EM	30343873	not PICO					
251	Neuromuscular electrical stimulation combined with exercise decreases duration of mechanical ventilation in ICU patients: A randomized controlled trial.	2020	Physiotherapy theory and practice	Dos Santos PV and Cipriano G Jr and Vieira L and GvPrntal Chiappa AM and Cipriano GB and Vieira P and Zago JS and Castilhos M and da Silva ML and Chiappa GR	30321084		NMES	2	High	3	Duplicate, also -> 2212
252	Effect of nonpharmacological interventions for the prevention of delirium in the intensive care unit: A systematic review and meta-analysis.	2018	Journal of critical care	Kang J and Lee M and Ko H and Kim S and Yun S and Jeong Y and Cho Y	30300863		Mobilisation	1	Low	1	
253	Nurse-Initiated Mobilization Practices in 2 Community Intensive Care Units: A Pilot Study.	2018	Dimensions of critical care nursing: DCCN	Stollendorff DP and Dietrich NS and Cridume T and McIntosh M and Maxwell CA	30273218	not PICO					
254	Chest physiotherapy with early mobilization may improve extubation outcome in critically ill patients in the intensive care units.	2018	The clinical respiratory journal	Wang TH and Wu CP and Wang LY	30264933	not PICO					
255	Predictors of survival in patients with influenza pneumonia-related severe acute respiratory distress syndrome treated with prone positioning.	2018	Annals of intensive care	Kao KC and Chang KW and Chan MC and Liang SJ and Chien YC and Hu HC and Chiu LC and Chen WC and Fang WF and Chen TM and Shou CC and Tsai MJ and Peng WC and Peng CK and Wu CL and Wang HC and Yang KY	30251181	not PICO					
256	Addition of blood flow restriction to passive mobilization reduces the rate of muscle wasting in elderly patients in the intensive care unit: a within-patient randomized trial.	2019	Clinical rehabilitation	Barbalho M and Rocha AC and Seus TL and Raiol R and Del Vecchio FB and Coswig VS	30246555	not PICO					
257	Multimodality respiratory physiotherapy reduces mortality but may not prevent ventilator-associated pneumonia or reduce length of stay in the intensive care unit: a systematic review.	2018	Journal of physiotherapy	Pozuelo-Carrascosa DP and Torres-Costoso A and Alvarez-Bueno C and Caverio-Redondo I and López-Muñoz P and Martínez-Vicente V	30220625	not PICO					
258	Impact of the Chelsea critical care physical assessment (CPA) tool on clinical outcomes of surgical and trauma patients in an intensive care unit: An experimental study.	2018	The South African journal of physiotherapy	Whelan M and van Aweghen H and Corner E	30214949		Mobilisation	4		4	
259	Rehabilitation and early mobilization in the critical patient: systematic review.	2018	Journal of physical therapy science	Arias-Fernandez P and Romero-Martin M and Gvmez-Salgado J and Fernndez-Garcva D	30214124	Article type					
260	Physiotherapy and Weaning From Prolonged Mechanical Ventilation.	2019	Respiratory care	Schreiber AF and Ceriana P and Ambrosino N and Molonini A and Nava S	30206129	not PICO					
261	Improving Outcomes for Critically Ill Cardiovascular Patients Through Increased Physical Therapy Staffing.	2019	Archives of physical medicine and rehabilitation	Johnson JK and Lohse B and Bento HA and Noren CS and Marcus RL and Tonna JE	30172645	not PICO					
262	Feasibility of Muscle Activity Assessment With Surface Electromyography During Bed Cycling Exercise in Intensive Care Unit Patients.	2018	Muscle & nerve	Sommers J and Van Den Boorn M and Engelbert RHH and Nollet F and Van Der Schaaf M and Horn J	30160070	not PICO					
263	Feasibility of Exercise Testing in Patients Who Are Critically Ill: A Prospective, Observational Multicenter Study.	2019	Archives of physical medicine and rehabilitation	Sommers J and Klooster E and Zoethout SB and van den Oever HLA and Nollet F and Tepaske R and Horn J and Engelbert RHH and van der Schaaf M	30142315	Duplicate					
264	Effects of Neuromuscular Electrical Stimulation of the Quadriceps and Diaphragm in Critically Ill Patients: A Pilot Study.	2018	Critical care research and practice	Lete MA and Osaku EF and Albert J and Costa CRLM and Garcia AM and Czapiewski FDN and Ogasawara SM and Bertolini GRF and Jorge AC and Duarte PAD	30123586		NMES	3		3	Duplicate, also -> 2213

Nummer	Titel	Jahr	Journal	Autoren	Pubmed-ID	Ausschlussgrund	Kapitel	LoE initial	Bias	LoE final	Duplikatverweise
265	Clinical Practice Guidelines for the Prevention and Management of Pain, Agitation/Sedation, Delirium, Immobility, and Sleep Disruption in Adult Patients in the ICU.	2018	Critical care medicine	Devlin J W and Skrobik Y and Gviliinas C and Needham DM and Slioter AJ C and Pandharipande PP and Watson PL and Weinhouse GL and Nunnally ME and Rochweg B and Bala MC and van den Broek M and Bosma KJ and Brummel NE and Chanques G and Denehy L and Drouot X and Fraser GL and Harris JE and Ioffe AM and Kho ME and Kress JP and L'Amphere JA and McKinley S and Needham K and Pisani MA and Payen JF and Pun BT and Puntillo KA and Riker RR and Robinson BRH and Shehabi Y and Sumita PM and Winkelman C and Contolenti JE and Price C and Nakaya S and Misak CJ and Flood PD and Kiedrowski K and Alhazzani W	30113379		Mobilisation	1	6	1	
266	Feasibility of Immediate in-Intensive Care Unit Pulmonary Rehabilitation after Lung Transplantation: A Single Center Experience.	2018	Acute and critical care	Song J H and Park J E and Lee S C and Kim S and Lee D H and Kim E K and Kim S Y and Shin J C and Lee J G and Park H C and Park M S	31723878	not PICO					
267	The Impact of Introducing a Physical Medicine and Rehabilitation Trauma Consultation Service to an Academic Level 1 Trauma Center.	2019	American journal of physical medicine & rehabilitation	Robinson CR and Ten Akl and MacDonald SL and Hanada E Y and Berbrayer D and Abdullahi A and Camliotti BG and Tien H	30063526	not PICO					
268	Rehabilitation for patients with sepsis: A systematic review and meta-analysis.	2018	PloS one	Taito S and Taito M and Banno M and Tsujimoto H and Kataoka Y and Tsujimoto Y	30048540		Mobilisation	1	Low	2	
269	Effect of In-Bed Leg Cycling and Electrical Stimulation of the Quadriceps on Global Muscle Strength in Critically Ill Adults: A Randomized Clinical Trial.	2018	JAMA	Fossat G and Baudin F and Courtes L and Bobet S and Dupont A and Bretagnol A and Benzekri-LeH'vred O and Karrel T and Muller G and Bercault N and Barbier F and Runge J and Nay MA and Skarzynski M and Mathonnet A and Boulain T	30043066		Tools	2	Low	2	
270	Early Rehabilitation Reduces Time to Decannulation in Patients With Severe Acquired Brain Injury: A Retrospective Study.	2018	Frontiers in neurology	Zivi I and Valsecchi R and Maestri R and Maffia S and Zarucchi A and Molatore E and Vellati E and Saltuari L and Frazzetta G	30042728	not PICO					
271	Increased physician and physical therapist communication is associated with earlier mobility and decreased length of stay in the cerebrovascular and trauma neuroscience population.	2018	NeuroRehabilitation	Burch D and Bernert S and Fraser J F	30040766	not PICO					
272	Application of prone position in hypoxaemic patients supported by veno-venous ECMO.	2018	Intensive & critical care nursing	Lucchini A and De Felipis C and Pelucchi G and Grasselli G and Patroniti N and Castagna L and Foti G and Pesenti A and Fumagalli R	30037534		Prone position	4		4	
273	A multimodal rehabilitation program for patients with ICU acquired weakness improves ventilator weaning and discharge home.	2018	Journal of critical care	Vercelles AC and Wells CL and Serkin JD and Terrin ML and Baars J and Jenkins T and Goldberg AP	30025227	not PICO					
274	Barriers to implementing expert safety recommendations for early mobilisation in intensive care unit during mechanical ventilation: A prospective observational study.	2019	Australian critical care : official journal of the Confederation of Australian Critical Care Nurses	Capell EL and Tipping CJ and Hodgson CL	30001954	not PICO					
275	Safety of neuromuscular electrical stimulation among critically ill patients: systematic review.	2018	Revista Brasileira de terapia intensiva	Sachetti A and Carpes MF and Dias AS and Struza G	29995088	Article type					
276	Effects of Different Head-of-Bed Elevations and Body Positions on Intracranial Pressure and Cerebral Perfusion Pressure in Neurosurgical Patients.	2018	The Journal of neuroscience nursing : journal of the American Association of Neuroscience Nurses	Altun Ufurano G and Yfikel S and Temiz Z and Eroglu S and Girit K and Turan Y	29985278		Positioning	3		4	
277	Prone positioning before extracorporeal membrane oxygenation for severe acute respiratory distress syndrome: A retrospective multicenter study.	2019	Medicina intensiva	Kim WY and Kang B and Chung CR and Park SH and Oh Y and Park SH and Cho WH and Sim YS and Cho YI and Park S and Kim JH and Hong SB	29983197	not PICO					
278	Acquired neuromuscular dysfunction in the intensive care unit.	2018	Enfermeria intensiva	Sanchez Solana L and Govti Bilbao I and Ruiz Garcia P and Dvaz Agas JL and Leal Costa C	29958844		Mobilisation	1		4	
279	Impact of Very Early Physical Therapy During Sepsis Shock on Skeletal Muscle: A Randomized Controlled Trial.	2018	Critical care medicine	Hickman CL and Calabrese-Zapatera D and Deldicque L and Van den Bergh P and Cady G and Robert A and Roesler J and Francoux M and Leterre PF	29957714		Mobilisation	2	Some concerns	2	
280	Early mobility in frail and non-frail older adults admitted to the cardiovascular intensive care unit.	2018	Journal of critical care	Goldfarb M and Allalio J and Chan A and Hescovic P and Cerek B	29879568		Mobilisation	4		4	
281	Neuromuscular electrostimulation for adults with chronic obstructive pulmonary disease.	2018	The Cochrane database of systematic reviews	Hill K and Cavalheri V and Mathur S and Roig M and Janaudis-Ferreira T and Robles P and Dolmage TE and Goldstein R	29845600	not PICO					
282	Progressive mobility program and technology to increase the level of physical activity and its benefits in respiratory, muscular system, and functionality of ICU patients: study protocol for a randomized controlled trial.	2018	Trials	Schujmann DS and Lunardi AC and Fu C	29747662	Article type					
283	Early Ambulation in Patients With External Ventricular Drains: Results of a Quality Improvement Project.	2018	Journal of intensive care medicine	Shah SO and Kraft J and Ankan N and Bu P and Spout K and Medina S and Rincon F and Ahar MK	29747562		Mobilisation	4		4	
284	Early rehabilitation to prevent postintensive care syndrome in patients with critical illness: a systematic review and meta-analysis.	2018	BMJ open	Fuke R and Hifumi T and Kondo Y and Hatakeyama J and Take T and Yamakawa K and Inoue S and Nishida O	29730622		Mobilisation	1	High	2	
285	Mobilisation is feasible in intensive care patients receiving vasoactive therapy: An observational study.	2019	Australian critical care : official journal of the Confederation of Australian Critical Care Nurses	Rebel A and Marzano V and Green M and Johnston K and Wang J and Neeman T and Mitchell I and Bissett B	29703636		Mobilisation	4		4	
286	Comparison of exercise intensity during four early rehabilitation techniques in sedated and ventilated patients in ICU: a randomised cross-over trial.	2018	Critical care (London, England)	Medrinal C and Combret Y and Prieur G and Robledo Quesada A and Bonnevie T and Gravier FE and Dupuis Lozeron E and Frenoy E and Contal O and Lamia B	29703223		Tools	2	Some concerns	2	
287	Factors among patients receiving prone positioning for the acute respiratory distress syndrome found useful for predicting mortality in the intensive care unit.	2018	Proceedings (Baylor University. Medical Center)	Modrykamien AM and Daoud Y	29686542	not PICO					
288	A systematic review evaluating the role of nurses and processes for delivering early mobility interventions in the intensive care unit.	2018	Intensive & critical care nursing	Krupp A and Steege L and King B	29681432	Article type					
289	Efficacy of early passive tilting in minimizing ICU-acquired weakness: A randomized controlled trial.	2018	Journal of critical care	Sarfati C and Moore A and Pilorge C and Amaru P and Mendialdua P and Rodet E and StVlphian F and Beaulieu Delcoux S	29660670		Positioning	2	Low	3	
290	Evaluation of the description of active mobilisation protocols for mechanically ventilated patients in the intensive care unit: A systematic review of randomized controlled trials.	2018	Heart & lung : the journal of critical care	de Queiroz RS and Saquetto MB and Martinez BP and Andrade EA and da Silva PAMP and Gomes-Neto M	29600834	Article type					
291	Early intervention (mobilization or active exercise) for critically ill adults in the intensive care unit (Review)	2018	Cochrane Library			Duplicate					see -> 1207
292	Safety and Feasibility of a Neuroscience Critical Care Program to Mobilize Patients With Primary Intracerebral Hemorrhage.	2018	Archives of physical medicine and rehabilitation	Bahouth MN and Power MC and Zink EK and Kozieniewski K and Kumble S and Deluzio S and Urrutia VC and Stevens RD	29580936		Mobilisation	4		4	
293	The effect of positional changes on oxygenation in patients with head injury in the intensive care unit.	2017	Journal of family medicine and primary care	Melita JN and Parnie ID	29564277	not PICO					
294	Safety and Efficacy of Aerobic Exercise Training Associated to Non-Invasive Ventilation in Patients with Acute Heart Failure.	2018	Arquivos brasileiros de cardiologia	Oliveira MF and Santos RC and Arto SA and Mendes VMF and Lobo DML and Correia EB and Ferraz AS and Lameda HK and Sperandio PA	29538506	not PICO					
295	Effect of Early Rehabilitation Activity Time on Critically Ill Patients with Intensive Care Unit-acquired Weakness: A Japanese Retrospective Multicenter Study.	2018	Progress in rehabilitation medicine	Watanabe S and Iida Y and Ito T and Matsuami M and Morita Y and Suzuki S and Nishida O	32789228		Mobilisation	4		4	
296	Early Rehabilitation and In-Hospital Mortality in Intensive Care Patients With Community-Acquired Pneumonia.	2018	American journal of critical care : an official publication, American Association of Critical Care Nurses	Sawada Y and Sasabuchi Y and Nakahara Y and Matsui H and Fukushima K and Haga N and Yasunaga H	29496765		Mobilisation	4		4	

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297	The safety of a novel early mobilization protocol conducted by ICU physicians: a prospective observational study.	2018	Journal of intensive care	Liu K and Ogura T and Takahashi K and Nakamura M and Ohtake H and Fujiduka K and Abe E and Osaki H and Miyazaki D and Suzuki H and Nishikimi M and Lefevre AJ and Maito T	29484188		Mobilisation	3		3	
298	Lung volumes and lung volume recruitment in ARDS: a comparison between supine and prone position.	2018	Annals of intensive care	Aguirre-Bermeo H and Turella M and Bitondo M and Grandjean J and Italiano S and Festa O and Morv'n I and Mancoff J	29445887	not PICO					
299	The effects of physical therapy with neuromuscular electrical stimulation in patients with septic shock: Study protocol for a randomized cross-over design.	2018	Medicine	Lago AF and de Oliveira AS and de Souza HCD and da Silva JS and Basile-Filho A and Gastaldi AC	29419665	Article type					Duplicate; also -> 2143
300	Effects of Modes, Obesity, and Body Position on Non-Invasive Positive Pressure Ventilation Success in the Intensive Care Unit: A Randomized Controlled Study.	2018	Turkish thoracic journal	Türk M and Aydoğdu M and Gölser G	29404183		Positioning	2	Some concerns	3	
301	Sustainability of a nurse-driven early progressive mobility protocol and patient clinical and psychological health outcomes in a neurological intensive care unit.	2018	Intensive & critical care nursing	Klein KE and Bena JF and Mulvey M and Albert NM	29396165		Mobilisation	4		4	
302	The Effect of Electrical Muscle Stimulation and In-bed Cycling on Muscle Strength and Mass of Mechanically Ventilated Patients: A Pilot Study.	2018	Acute and critical care	Woo K and Kim J and Kim HB and Choi H and Kim K and Lee D and Na S	31723855		NMES	3		5	
303	A feasibility study of a randomised controlled trial to examine the impact of the ABCDE bundle on quality of life in ICU survivors.	2018	Pilot and feasibility studies	Sosnowski K and Mitchell ML and White H and Morrison L and Sutton J and Sharratt J and Lin F	29372070	not PICO					
304	In-bed cycling in the ICU	2018	Acta Anaesthesiologica Scandinavica	Ringdal		not PICO					
305	Safety criteria to start early mobilization in intensive care units. Systematic review.	2017	Revista Brasileira de terapia intensiva	Conceicao TMAD and Goncalves AI and Figueiredo FCX and Vieira DSR and Bivandchen DC	29340541		Mobilisation	1		3	
306	Elevation of the head during intensive care management in people with severe traumatic brain injury.	2017	The Cochrane database of systematic reviews	Alarcon JD and Rubiano AM and Okonkwo DO and Alarcon J and Martinez-Zapata MJ and Urrutia G and Bonfill Cosp X	29283434	not PICO					
307	When is it safe to exercise mechanically ventilated patients in the intensive care unit? An evaluation of consensus recommendations in a cardiothoracic setting.	2018	Heart & lung : the journal of critical care	Boyd J and Paratz J and Tronstad O and Caruana L and McCormick P and Walsh J	29246774		Mobilisation	3		4	
308	Timing and Amount of Physical Therapy Treatment are Associated with Length of Stay in the Cardiothoracic ICU.	2017	Scientific reports	Johnson AM and Henning AN and Morris PE and Tezanos AGV and Dupont-Versteegden EE	29242519		Mobilisation	4		4	
309	Inhalation Sedation in Subjects With ARDS Undergoing Continuous Lateral Rotational Therapy.	2018	Respiratory care	Meiser A and Groesdonk HV and Bonnekessel S and Volk T and Bombberg H	29233852	not PICO					
310	A prospective international observational prevalence study on prone positioning of ARDS patients: the APRONET (ARDS Prone Position Network) study.	2018	Intensive care medicine	Guerin C and Beuret P and Constantin JM and Bellani G and Garcia-Orvares P and Roca O and Meertens H and Maia PA and Becher T and Peterson J and Larsson A and Gurjar M and Hajjeh Z and Kovari F and Assiri AH and Mainas E and Hassan MB and Morchocho-Tortillo DR and Baboi L and Christlatter JM and Franchis G and Aysa L and Chen L and Brochard L and Mercat A	29128379		Prone position	3		4	
311	Influence of muscle strength on early mobility in critically ill adult patients: Systematic literature review.	2018	Heart & lung : the journal of critical care	Roberson AR and Starkweather A and Grossman C and Acevedo E and Salyer J	29217105	not PICO					
312	Implementing a Multicomponent Intervention to Prevent Delirium Among Critically Ill Patients.	2017	Critical care nurse	Martinez F and Donoso AM and Marquez C and Labarca E	29196586		Mobilisation	4		4	
313	Randomized, multicenter trial of lateral Trendelenburg versus semirecumbent body position for the prevention of ventilator-associated pneumonia.	2017	Intensive care medicine	Li Bassi G and Panigada M and Ranzani OT and Zanella A and Berra L and Cressoni M and Parrini V and Kandil H and Salati G and Selvaggi P and Amato A and Sanz-Moncosi M and Biagioni E and Tagliaferri F and Furia M and Mercurio G and Costa A and Manca T and Lindau S and Babel J and Cavana M and Chiurazzi C and Marti JD and Consonni D and Gattinoni L and Prenti A and Wiener-Kronish I and Brusch C and Ballotta A and Salati P and Livigni S and Iotti G and Fernandez J and Girardis M and Barbagallo M and Moise G and Antonelli M and Capani ML and Vezzani A and Meybohm P and Gasparovic V and Geat E and Amato M and Niederman M and Kolobow T and Torres A	29149418		Positioning	2	Low	3	
314	Feasibility of Early, Motor-Assisted Cycle Ergometry in Critically Ill Neurological Patients With Upper Limb Weakness and Variable Cognitive Status: A Case Series.	2018	American journal of physical medicine & rehabilitation	Delutio S and Vora I and Kumbale S and Zink EK and Stevens RD and Bahouth MN	29095167	Article type					
315	Prone Position for Acute Respiratory Distress Syndrome: A Systematic Review and Meta-Analysis.	2017	Annals of the American Thoracic Society	Mundt L and Del Sorbo L and Adhikari NKJ and Hodgson CL and Wunsch H and Meade MO and Uterky E and Mancoff J and Prenti A and Ranieri VM and Fan E	29068269		Prone position	1	Low	1	
316	Critical Care Cycling Study (CYCLIST) trial protocol: a randomised controlled trial of usual care plus additional in-bed cycling sessions versus usual care in the critically ill.	2017	BMI open	Nickels MR and Aitken LM and Walsham J and Barnett AG and McPhail SM	29061618	Article type					
317	Mobilization in early rehabilitation in intensive care unit patients with severe acquired brain injury: An observational study.	2017	Journal of rehabilitation medicine	Bartolo M and Bargellesi S and Castioni CA and Intiso D and Fortiana A and Copetti M and Scarpini F and Bonaldi D	28980699		Mobilisation	4		4	
318	Management of Acute Respiratory Distress Syndrome and Refractory Hypoxemia. A Multicenter Observational Study.	2017	Annals of the American Thoracic Society	Duan EH and Adhikari NKJ and D'Arango F and Cook DJ and Mehta S and Alhazzani W and Goligher E and Charbonney E and Arabi YM and Karachi T and Turgeon AJ and Hind L and Zhou Q and Austin P and Friedrich J and Lemontagne F and Lauzier F and Patel R and Muscedere J and Hall R and Aslanian P and Piraino T and Albert M and Bagshaw SM and Jacka M and Wood G and Henderson W and Dorscheid D and Ferguson ND and Meade MO	28910146	not PICO		3		3	
319	Short-term effects of passive mobilization on the sublingual microcirculation and on the systemic circulation in patients with septic shock.	2017	Annals of intensive care	Pinheiro TT and de Freitas FGR and Coimbra KTF and Mendez VMF and Rossetti HB and Talma PV and Belf AT and Machado FR	28887766	not PICO					
320	Early Mobilization of Patients With External Ventricular Devices.	2017	The Journal of neuroscience nursing : journal of the American Association of Neuroscience Nurses	Brown SM and Davis RA and Arnold SM	28885462	Article type					
321	Mobilization of Mechanically Ventilated Patients in Switzerland.	2020	Journal of intensive care medicine	Sibilla A and Nydahl P and Greco N and Mungo G and Ott N and Unger I and Reek S and Gempeler S and Needham DM and Kudchadkar SR	28847238	not PICO					
322	Early mobilization reduces the atelectasis and pleural effusion in patients undergoing coronary artery bypass graft surgery: A randomized clinical trial.	2017	Journal of vascular nursing : official publication of the Society for Peripheral Vascular Nursing	Moradian ST and Najafloo M and Mahmoudi H and Ghiasi MS	28838589	not PICO					
323	Intensive versus standard physical rehabilitation therapy in the critically ill (EPIC): a multicentre, parallel-group, randomised controlled trial.	2018	Thorax	Wright SE and Thomas K and Watson G and Baker C and Bryant A and Chadwick TJ and Shen J and Wood R and Wilkinson J and Mansfield L and Suffolk V and Wade C and Furnival J and Henderson A and Huggill K and Howard P and Roy A and Bonner S and Baudouin S	28780504		Mobilisation	2	High	4	

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324	The clinical practice guideline for the management of ARDS in Japan.	2017	Journal of Intensive care	Hashimoto S and Sanui M and Egi M and Ohshima S and Shiotsuka J and Seo R and Tanaka R and Tanaka Y and Norisue Y and Hayashi Y and Nango E	28770093		Prone position	1	7	1	
325	A Descriptive Report of Early Mobilization for Critically Ill Ventilated Patients with Cancer.	2017	Rehabilitation oncology (American Physical Therapy Association, Oncology Section)	Weeks A and Campbell C and Rajendram P and Shi W and Voigt L	28713659	not PICO					
326	Safety of early ambulation following blunt abdominal solid organ injury: A prospective observational study.	2017	American journal of surgery	Wang E and Inaba K and Byerly S and Mendelsoberg R and Sava J and Benjamin E and Lam L and Demetriades D	28610936	not PICO					
327	Analysis of complications of prone position in acute respiratory distress syndrome: quality standard, incidence and related factors.	2017	Enfermeria intensiva	Jove Ponseti E and Villarrasa Millán A and Ortiz Chinchilla D	28602752	not PICO					
328	Time of elevation of head of bed for patients receiving mechanical ventilation and its related factors.	2017	Enfermeria intensiva	Marti-Herou L and Arceciado Maravézn A	28602751	not PICO					
329	Investigating the clinical feasibility of an adapted early mobility readiness protocol for critical ill patients: A non-randomised experimental pilot trial.	2017	Intensive & critical care nursing	Conradie E and Fourie CE and Hanekom SD	28552261	not PICO					
330	The MOVIN project (Mobilisation Of Ventilated intensive care patients at Nepean): A quality improvement project based on the principles of knowledge translation to promote nurse-led mobilisation of critically ill ventilated patients.	2017	Intensive & critical care nursing	Hassan A and Rajamani A and Fitzsimons F	28552258	not PICO					
331	Body weight-supported bedside treadmill training facilitates ambulation in ICU patients: An interventional proof of concept study.	2017	Journal of critical care	Sommers J and Wiefelink DC and Dongelmans DA and Nollet F and Engelbert RHH and van der Schaaf M	28549273		Tools	4		4	
332	Continuous lateral rotational therapy in trauma-A systematic review and meta-analysis.	2017	The journal of trauma and acute care surgery	Schieren M and Piekarski F and Dussé F and Marcus H and Poels M and Wappler F and Desosse J	28538631		Positioning	1	Unclear	2	
333	A Multicenter, Randomized Trial of Ramped-Position vs- Sniffing Position During-Endotracheal Intubation of Critically-Ill Adults.	2017	Chest	Semler MW and Jana DR and Russell DW and Casey JD and Lentz RJ and Zouk AN and deBoisblanc BP and Santanilla JI and Khan YA and Joffe AM and Stigler WS and Rice TW	28487139		Positioning	2	Low	2	
334	An Official American Thoracic Society/European Society of Intensive Care Medicine/Society of Critical Care Medicine Clinical Practice Guideline: Mechanical Ventilation in Adult Patients with Acute Respiratory Distress Syndrome.	2017	American journal of respiratory and critical care medicine	Fan E and Del Sorbo L and Goligher E and Hodgson CL and Murthi L and Walkey AJ and Adhikari NKJ and Amato MBP and Branson R and Brower RG and Ferguson ND and Gajic O and Gattinoni L and Hess D and Mancebo J and Meade MO and McAuley DF and Pesenti A and Ranieri VM and Rubenfeld GO and Rubin E and Seckel M and Slutsky AS and Talmor D and Thompson BT and Wunsch H and Ulerik E and Brozek J and Brochard LJ	28459336		Prone position	1	7	1	
335	A Feasibility Study of Intermittent Electrical Stimulation to Prevent Deep Tissue Injury in the Intensive Care Unit.	2017	Advances in wound care	Kane A and Warwaruk-Rogers R and Ho C and Chan M and Stein R and Muthahwar VK and Dukelow SP	28451468	not PICO					
336	Identifying Barriers to Delivering the Awakening and Breathing Coordination, Delirium, and Early Exercise/Mobility Bundle to Minimize Adverse Outcomes for Mechanically Ventilated Patients: A Systematic Review.	2017	Chest	Costa DK and White MR and Ginier E and Manojlovich M and Govindan S and Iwashyna TJ and Sales AE	28438605	not PICO					
337	Safety and Feasibility of a Protocolized Approach to In-Bed Cycling Exercise in the Intensive Care Unit: Quality Improvement Project.	2017	Physical therapy	Kimweli I and Lamberjack B and Nelliot A and Toonstra AL and Zanni J and Huang M and Manthey E and Kho ME and Needham DM	28379571	not PICO					
338	Oxidative stress and immune system analysis after cycle ergometer use in critical patients.	2017	Clinics (Sao Paulo, Brazil)	Franca EF and Ribeiro LC and Lamenha GG and Magalhães VK and Figueiredo TG and Costa MJ and Ellikimas UF JYjnior and Feltosa BL and Andrade MD and Correia MA JYjnior and Ramos FF and Castro CM	28355359	not PICO					
339	The Economic and Clinical Impact of Sustained Use of a Progressive Mobility Program in a Neuro-ICU.	2017	Critical care medicine	Hester JM and Guin PR and Daneke GD and Thomas JR and Titawarth WL and Reed RK and Vasilopoulos T and Fahy BG	28328648		Mobilisation	4		4	
340	Intensive Early Rehabilitation in the Intensive Care Unit for Liver Transplant Recipients: A Randomized Controlled Trial.	2017	Archives of physical medicine and rehabilitation	Maffei P and Wiramusa S and Berosuian L and Bienvenu L and Haddad E and Morange S and Fathallah M and Hardwigsen J and Vitor JM and Le Treut YP and Albanese J and Gregoire F	28279659		Mobilisation	2	High	3	
341	Effects of different early rehabilitation techniques on haemodynamic and metabolic parameters in sedated patients: protocol for a randomised, single-blind, crossover trial.	2017	BMI open respiratory research	Medrinal Cand Combret Y and Prieur G and Robledo Quesada A and Bonnevie T and Gravier FE and Frenoy V and Contal O and Lami B	28255448	Article type					
342	Prone positioning in acute respiratory distress syndrome after abdominal surgery: a multicenter retrospective study : SAPRONADONF (Study of Ards and PRONE position After abDOminal surgery in France).	2017	Annals of intensive care	Gaudry S and Tuffet S and Lukaszewicz AC and Laplace C and Zucman N and Pocard M and Costaglioli B and Milka S and Duranteau J and Payen D and Dreyfuss D and Hajage D and Ricard JD	28236174		Prone position	4		4	
343	Safety of Patient Mobilization and Rehabilitation in the Intensive Care Unit. Systematic Review with Meta-Analysis.	2017	Annals of the American Thoracic Society	Nydhali P and Sriharaoenchal T and Chandra S and Kundt PS and Huang M and Fischli M and Needham DM	28231030		Mobilisation	1	Low	1	
344	Implementation of an Early Mobility Pathway in Neurointensive Care Unit Patients With External Ventricular Devices.	2017	The Journal of neuroscience nursing : journal of the American Association of Neuroscience Nurses	Moyer M and Young B and Wilensky EM and Boritz J and Pino W and Hart M and Lobreglio J and Zaleski D and Leonor I and Kung D and Smith M and Zager E and Grady MS and Kumar M	28230563		Mobilisation	4		4	
345	Effectiveness of new sedation and rehabilitation methods for critically ill patients receiving mechanical ventilation.	2017	Journal of physical therapy science	Yamashita K and Takami A and Wakayama S and Makino M and Takeyama Y	28210060		Mobilisation	4		5	
346	A Quasi-Experimental, Before-After Trial Examining the Impact of an Emergency Department Mechanical Ventilator Protocol on Clinical Outcomes and Lung-Protective Ventilation in Acute Respiratory Distress Syndrome.	2017	Critical care medicine	Fuller BM and Ferguson IT and Mohr RM and Drewry AM and Palmer C and Weseman BT and Abolodepeye E and Keeperman J and Stephens RJ and Briscoe CC and Kolomietis AA and Hotchkiss RS and Kollef MH	28157140	not PICO					
347	Use of neuromuscular electrical stimulation to preserve the thickness of abdominal and chest muscles of critically ill patients: A randomized clinical trial.	2017	Journal of rehabilitation medicine	Dall'Acqua AM and Sacchetti A and Santos LJ and Lemos FA and Bianchi T and Naeue WS and Dias AS and Sbruzzi G and Vieira SR	28101565		NMES	2	Some concerns	4	
348	Quality improvement: The delivery of true early mobilisation in an intensive care unit.	2016	BMI quality improvement reports	van Willigen Z and Collings N and Richardson D and Cooke R	28090326		Mobilisation	4		4	
349	Whole-body vibration to prevent intensive care unit-acquired weakness: safety, feasibility, and metabolic response.	2017	Critical care (London, England)	Wollersheim T and Haas K and Wolf S and Maix S and Spies C and Steinhagen-Thiesen E and Wernecke KD and Spranger J and Weber-Carstens S	28065165		Tools	3		4	
350	TryCYCLE: A Prospective Study of the Safety and Feasibility of Early In-Bed Cycling in Mechanically Ventilated Patients.	2016	PloS one	Kho ME and Molloy AJ and Clarke FJ and Ajami D and McCaughan M and Obrovac K and Murphy C and Camposovan I and Henridge MS and Koo KK and Rudkowski J and Seely AJ and Zanni JM and Mourtakis M and Piraino T and Cook DJ	28030555	not PICO					
351	Early Mobilization Reduces Duration of Mechanical Ventilation and Intensive Care Unit Stay in Patients With Acute Respiratory Failure.	2017	Archives of physical medicine and rehabilitation	Lai CC and Chou W and Chan KS and Cheng KC and Yuan KS and Chao CM and Chen CM	27979608		Mobilisation	4		4	
352	Feasibility and Effectiveness of a Delirium Prevention Bundle in Critically Ill Patients.	2016	American journal of critical care : an official publication, American Association of Critical-Care Nurses	Smith CD and Grami P	27965224		Mobilisation	4		4	

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353	Effects of early mobilisation in patients after cardiac surgery: a systematic review.	2017	Physiotherapy	Ramos Dos Santos PM and Aquarone Ricci N and Aparecida Bordignon Suster v& de Moraes Paisani D and Dias Chavesigato L	27931870	not PICO					
354	Lung ultrasound can be used to predict the potential of prone positioning and assess prognosis in patients with acute respiratory distress syndrome.	2016	Critical care (London, England)	Wang XT and Ding X and Zhang HM and Chen H and Su LX and Liu DW	27899151	not PICO					
355	Intensive Care Physiotherapy during Extracorporeal Membrane Oxygenation for Acute Respiratory Distress Syndrome.	2017	Annals of the American Thoracic Society	Murshli L and Kobayashi T and DeBaker J and Doobay R and Telesnicki T and Lo V and Cote N and Cypel M and Keshavjee S and Ferguson ND and Fan E	27898220		Mobilisation	4		4	
356	Fitness and mobility training in patients with Intensive Care Unit-acquired muscle weakness (FITonICU): study protocol for a randomised controlled trial.	2016	Trials	Mehrholz J and Thomas S and Burridge JH and Schmidt A and Scheffer B and Schellin R and Rivckrien S and Melviner D and Mehrholz K and Sauter W and Bodechtel A and Elpers B	27881152	Article type					
357	Interventions to reduce cognitive impairments following critical illness: a topical systematic review.	2017	Acta anaesthesiologica Scandinavica	Nedergaard HK and Jensen HI and Toft P	27878815	not PICO					
358	The effects of active mobilisation and rehabilitation in ICU on mortality and function: a systematic review.	2017	Intensive care medicine	Tipping CJ and Harrold M and Holland A and Romero L and Nisbet T and Hodgson CL	27864615		Mobilisation	1	Low	1	
359	Effect of ABCDE Bundle Implementation on Prevalence of Delirium in Intensive Care Unit Patients.	2016	American journal of critical care: an official publication, American Association of Critical-Care Nurses	Bounds M and Kram S and Speroni KG and Brice K and Luschinski MA and Harte S and Daniel MG	27802955		Mobilisation	4		4	
360	An Official American Thoracic Society/American College of Chest Physicians Clinical Practice Guideline: Liberation from Mechanical Ventilation in Critically Ill Adults. Rehabilitation Protocols, Ventilator Liberation Protocols, and Cuff Leak Tests.	2017	American journal of respiratory and critical care medicine	Girard TD and Alhazzani W and Kress JP and Quetlet D and Schmidt GA and Truett JD and Burns SM and Epstein SK and Esteban A and Fan E and Ferrer M and Fraser GL and Gong MN and Hough CL and Mehta S and Nanchahal R and Patel S and Pawlik AJ and Schweickert WD and Seidler CN and Struett T and Wilson KC and Morris PE	27762595		Mobilisation	1	7	1	
361	Clinical Practice Guideline of Acute Respiratory Distress Syndrome.	2016	Tuberculosis and respiratory diseases	Cho Y and Moon JY and Shin ES and Kim JH and Jung H and Park Y and Kim HC and Sim YS and Rhee CK and Lim J and Lee SJ and Lee WY and Lee HJ and Kwak SH and Kang EK and Chung KS and Choi WI	27790273		Prone position	1	6	1	
362	Implementation of the physical function ICU test tool in a resource constrained intensive care unit to promote early mobilisation of critically ill patients: a feasibility study.	2016	Archives of physiotherapy	Tadyanemhandu C and Manie S	29340193	not PICO					
363	Early Rehabilitation in the Medical and Surgical Intensive Care Units for Patients With and Without Mechanical Ventilation: An Interprofessional Performance Improvement Project.	2017	PM & R: the journal of injury, function, and rehabilitation	Corcoran JR and Herbsman JM and Bushnik T and Van Lew S and Stoff A and Parkin K and McKenzie A and Hall GW and Joseph W and Whiteson J and Flanagan SH	27346093		Mobilisation	4		4	
364	The Sara Combitzer (-E) as an early mobilisation aid for critically ill patients: A prospective before and after study.	2017	Australian critical care: official journal of the Confederation of Australian Critical Care Nurses	McWilliams D and Atkins G and Hodson J and Snelson C	27745753		Mobilisation	4		4	
365	Safety and feasibility of a neuromuscular electrical stimulation chronaxie-based protocol in critical ill patients: A prospective observational study.	2017	Journal of critical care	Silva PE and Babault N and Mazullo JB and de Oliveira TP and Lemos BL and Carvalho VO and Durigan LQ	27732921		NMES	4			
366	Effectiveness of Pressure Ulcer Prevention Strategies for Adult Patients in Intensive Care Units: A Systematic Review.	2016	Worldviews on evidence-based nursing	Tayyib N and Coyer F	27712030	not PICO					
367	Occupational therapy for delirium management in elderly patients without mechanical ventilation in an intensive care unit: A pilot randomized clinical trial.	2017	Journal of critical care	Alvarez EA and Garrido MA and Tobar EA and Prieto SA and Vergara SO and Briceveto CD and Gonsky FJ	27660922	not PICO					
368	Early goal-directed mobilization in the intensive care unit is feasible and safe, and increases both the level and duration of activity [synopsis].	2016	Journal of physiotherapy	Hill K	27634169		Article type				
369	Progressive Mobility Protocol Reduces Venous Thromboembolism Rate in Trauma Intensive Care Patients: A Quality Improvement Project.	2016	Journal of trauma nursing: the official journal of the Society of Trauma Nurses	Booth K and Rivet J and Flici R and Harvey E and Hamill M and Hundley D and Holland K and Hubbard S and Trivelli A and Collier B	27618376		Mobilisation	4		4	
370	Effects of mobility training on severe burn patients in the BICU: A retrospective cohort study.	2016	Burns: journal of the International Society for Burn Injuries	Deng H and Chen J and Li J and Li Zhang CW and Liu Q and Ma X and Ao M and Chen N and Zhou Y and Zhong X and Chen Z and Cao L and He G and Wu J	27595451		Mobilisation	4		4	
371	Supine position and nonmodifiable risk factors for ventilator-associated pneumonia in trauma patients.	2017	American journal of surgery	Michetti CP and Prentice HA and Rodrigues J and Newcomb A	27568459	not PICO					
372	Teamwork enables high level of early mobilization in critically ill patients.	2016	Annals of intensive care	Hickmann CE and Castanares Zapatero D and Bialais E and Dugrenier J and Tordeur A and Colmant L and Wittebole X and Tirone G and Roseler J and Laterre PF	27553652		Mobilisation	3		3	
373	[Positioning therapy and early mobilization in intensive care units: Findings from the current 2015 guidelines].	2016	Medizinische Klinik, Intensivmedizin und Notfallmedizin	Hermes C and Nydahl P and Hensler D and Bein T	27506774	Article type				5	
374	Evaluation of a Progressive Mobility Protocol in Postoperative Cardiothoracic Surgical Patients.	2016	Dimensions of critical care nursing: DCCN	Floyd S and Craig SW and Topley D and Tullmann D	27487753		Mobilisation	4		5	
375	Effectiveness of a Very Early Stepping Verticalization Protocol in Severe Acquired Brain Injured Patients: A Randomized Pilot Study in ICU.	2016	PloS one	Frazzetta G and Zivi I and Valacchi R and Bonini S and Maffia S and Molatore K and Sebastianelli L and Zarucchi A and Matteri D and Ercoli G and Maestri R and Saltuari L	27447483		Tools	2	Some concerns	3	
376	Associations Between Ventilator Bundle Components and Outcomes.	2016	JAMA internal medicine	Klompas M and Li L and Kleinman K and Saumita PM and Masaro AF	27428482	not PICO					
377	Hemodynamic challenge to early mobilization after cardiac surgery: A pilot study.	2016	Annals of cardiac anaesthesia	Cassina T and Putzu A and Santambrogio L and Villa M and Licker MJ	27397446	not PICO					
378	Related factors to semi-recumbent position compliance and pressure ulcers in patients with invasive mechanical ventilation: An observational study (CAPCRI study).	2016	International journal of nursing studies	Liaurado-Serra M and Ullidemolins M and Fernandez-Ballart J and Gueli-Baro A and Valente-Trullis T and Calpe-Damians N and Pivzol-Tena A and Pi-Guerrero M and Pavlos-Espinosa C and Sandiumenge A and Jimenez-Herrera MF	27394032	not PICO					
379	Epidural analgesia combined with a comprehensive physiotherapy program after Cytoreductive Surgery and HIPEC is associated with enhanced post-operative recovery and reduces intensive care unit stay: A retrospective study of 124 patients.	2016	European journal of surgical oncology: the journal of the European Society of Surgical Oncology and the British Association of Surgical Oncology	Osses M and Weyrech J and Gayat E and Dagois S and Lo Dico R and Pocard M and Eveno C	27381171	not PICO					
380	Mobility and Ambulation for Patients with Pulmonary Artery Catheters: A Retrospective Descriptive Study.	2015	Journal of acute care physical therapy	Fields C and Trotsky A and Fernandez N and Smith BA	27347435		Mobilisation	4		4	
381	Lung ultrasonography for assessment of oxygenation response to prone position ventilation in ARDS.	2016	Intensive care medicine	Haddam M and Zieskiewicz L and Perbet S and Baldovini A and Guervilly C and Arbelot C and Noel A and Vigne C and Hammal E and Antonini F and Lehnigues S and Peytel E and Lu Q and Bouhemad B and Gollmar J and Langeron O and Martin C and Muller L and Roubly J and Constantin JM and Papazian L and Leone M	27324241	not PICO					
382	Mobilization of intensive care patients: a multidisciplinary practical guide for clinicians.	2016	Journal of multidisciplinary healthcare	Green M and Marzano V and Leditschke IA and Mitchell I and Buett B	27307746	not PICO					
383	Kinetic therapy in multiple trauma patients with severe thoracic trauma: a treatment option to reduce ventilator time and improve outcome.	2017	European journal of trauma and emergency surgery: official publication of the European Trauma Society	Wutler S and Sturm K and Lüttenberger T and Weyn H and Zacharowski K and Marzi J and Bingold T	27272916		Positioning	4		4	
384	Physical Therapist-Led Ambulatory Rehabilitation for Patients Receiving CentriMag Short-Term Ventricular Assist Device Support: Retrospective Case Series.	2016	Physical therapy	McGarrigle L and Caunt J	27256069		Mobilisation	4		4	

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385	Making of a Successful Early Mobilization Program for a Medical Intensive Care Unit.	2016	Southern medical journal	Sigler M and Nugent K and Alalawi R and Selvan K and Tseng J and Edriss H and Turner A and Valdez K and Krause D	27255089		Mobilisation	4		4	
386	Physical rehabilitation interventions for adult patients during critical illness: an overview of systematic reviews.	2016	Thorax	Connolly B and O'Neill B and Salisbury L and Blackwood B	27220357		Mobilisation	5		5	
387	Effects of Early Bedside Cycle Exercise on Intracranial Pressure and Systemic Hemodynamics in Critically Ill Patients in a Neurointensive Care Unit.	2016	Neurocritical care	Thelandersson A and Nelligård B and Ricksten SE and Cider VO	27216931		Tools	3		3	
388	Monitoring of Potential Safety Events and Vital Signs during Active Mobilization of Patients Undergoing Continuous Renal Replacement Therapy in a Medical Intensive Care Unit.	2016	Blood purification	Lee H and Ko Y and Jung J and Choi AJ and Suh GT and Chung CH	27189339		Mobilisation	4		5	
389	Lateral positioning for critically ill adult patients.	2016	The Cochrane database of systematic reviews	Hewitt N and Bucknall J and Faraone NM	27169365		Positioning	1		3	
390	Backrest Elevation and Tissue Interface Pressure by Anatomical Location During Mechanical Ventilation.	2016	American journal of critical care : an official publication, American Association of Critical-Care Nurses	Grap MJ and Munro CL and Wetzel PA and Schubert CM and Peppel A and Burk RS and Lucas V	27134239	not PICO					
391	Benefits of Early Active Mobility in the Medical Intensive Care Unit: A Pilot Study.	2016	The American journal of medicine	Azuh O and Gammon H and Burmeister C and Frega D and Nerenz D and DiGiovine B and Siddiqui A	27107920		Mobilisation	4		4	
392	Transport of Mechanically Ventilated Patients in the Prone Position.	2016	Prehospital emergency care : official journal of the National Association of EMS Physicians and the National Association of State EMS Directors	DellaVolpe JD and Lovett J and Martin-Gill C and Guyette FX	27075163	not PICO					
393	CYCLE pilot: a protocol for a pilot randomised study of early cycle ergometry versus routine physiotherapy in mechanically ventilated patients.	2016	BMJ open	Kho ME and Molloy AJ and Clarke F and Herridge MS and Koo KK and Rudkowski J and Seely AJ and Pellizzari JR and Tarride JE and Mourtazakis M and Karach T and Cook DJ	27059469	Article type					
394	[Prone positioning of patients during venovenous extracorporeal membrane oxygenation is safe and feasible].	2016	Der Anaesthetist	Voelker MT and Jahn N and Becker S and Becken-Rux D and Krippen S and Kainers UX and Laudi S	27007777	not PICO					
395	Early Rehabilitation Therapy is Beneficial for Patients With Prolonged Mechanical Ventilation After Coronary Artery Bypass Surgery.	2016	International heart journal	Dong Z and Yu B and Zhang Q and Pei H and Xing J and Fang W and Sun Y and Song Z	26973269		Mobilisation	2	High	3	
396	Neuromuscular electrical stimulation acutely mobilises endothelial progenitor cells in critically ill patients with sepsis.	2016	Annals of intensive care	Stefanou C and Karatzanos E and Mitsiou G and Psarra K and Angelopoulos E and Dimopoulos S and Gerovasili V and Bowditch E and Routsis C and Nanas S	26969168	not PICO					
397	Impact of mobilisation therapy on the haemodynamic and respiratory status of elderly intubated patients in an intensive care unit: A retrospective analysis.	2016	Intensive & critical care nursing	Umei N and Atagi K and Okuno H and Uusuke S and Otsuka Y and Ujiro A and Shimooka H	26961919	not PICO					
398	A randomised trial of an intensive physiotherapy program for patients in intensive care [synopsis].	2016	Journal of physiotherapy	Skinner EH	26960742	Article type					
399	Lung ventilation strategies for acute respiratory distress syndrome: a systematic review and network meta-analysis.	2016	Scientific reports	Wang C and Wang X and Chi C and Guo L and Guo L and Zhao X and Wang W and Pi X and Sun B and Lian A and Shi J and Li E	26955891	not PICO					
400	Prone position and pressure control inverse ratio ventilation in H1N1 patients with severe acute respiratory distress syndrome.	2016	Venkatagowda	Venkatagowda PM and Rao SM and Harde YR and Raut MK and Mutkule DP and Munta K and Rao MV	26955217	not PICO					
401	The implementation of an early rehabilitation program is associated with reduced length of stay: A multi-ICU study.	2016	Journal of the Intensive Care Society	Wahab R and Yip NH and Chandra S and Nguyen M and Pavlovich KH and Benson T and Vilotijevic D and Rodier DM and Patel KR and Rychcik P and Perez-Mir E and Boyle SM and Berlin D and Needham DM and Braden D	28979452		Mobilisation	4		4	
402	Muscle mass, strength and functional outcomes in critically ill patients after cardiothoracic surgery: does neuromuscular electrical stimulation help? The Calstim 2 randomised controlled trial.	2016	Critical care (London, England)	Fischer A and Spiegel M and Altmann K and Winkler A and Salamon A and Themel-Huber M and Mouhieddine M and Strasser EM and Schiferer A and Paternostro-Sluga T and Hiesmayr M	26825278		NMES	2	Some concerns	2	
403	Feasibility and Safety of Physical Therapy during Continuous Renal Replacement Therapy in the Intensive Care Unit.	2016	Annals of the American Thoracic Society	Toonstra AL and Zanni JM and Sperati CJ and Nelliot A and Manthey E and Skinner EH and Needham DM	26788890		Mobilisation	3		3	
404	The effect of range of motion exercises on delirium prevention among patients aged 65 and over in intensive care units.	2016	Geriatric nursing (New York, N.Y.)	Karadas C and Ozdemir L	26763172		Mobilisation	2	High	3	
405	Influence of different degrees of head elevation on respiratory mechanics in mechanically ventilated patients.	2015	Revista Brasileira de terapia intensiva	Martinez BP and Marques TI and Santos DR and Salgado VS and Nepomuceno Vignior BR and Alves GA and Gomes Neto M and Forgiani Junior LA	26761472	not PICO					
406	Semi-recumbent position versus supine position for the prevention of ventilator-associated pneumonia in adults requiring mechanical ventilation (Review)	2016	Cochrane Library	Wang		Duplicate					see -> 1214
407	Two Methods for Turning and Positioning and the Effect on Pressure Ulcer Development: A Comparison Cohort Study.	2016	Journal of wound, ostomy, and continence nursing : official publication of the Wound, Ostomy and Continence Nurses Society	Powers J	26727682	not PICO					
408	Problems and challenges in the early period of rehabilitating patients with severe hypothermia treated using ECMO support.	2016	Wiadomosci lekarskie (Warsaw, Poland : 1960)	Batycka-Stachnik D and Piwoda A and Darocha T and Spiewak M and Kosinski S and Jarosz A and Hymczak H and Sznaj T and Galaskowski R and Piatek J and Konstany-Kalandyk J and Drwila R	28478412	not PICO					
409	Ventilator-associated pneumonia in ARDS patients: the impact of prone positioning. A secondary analysis of the PROSEVA trial.	2016	Intensive care medicine	Ayaz L and Girard R and Baboi L and Beuret P and Rabilloud M and Richard JC and Guv'rin C	26699917		Prone position	4		4	
410	Systematic review of early exercise in intensive care: A qualitative approach.	2016	Anaesthesia, critical care & pain medicine	Laurent H and Aubret S and Richard R and Gorce Y and Caron E and Vallat A and Davin AM and Constantin JM and Coudeyre E	26655865	Article type					
411	Original Research: Implementation of an Early Mobility Program in an ICU.	2015	The American journal of nursing	Fraser D and Spiva L and Forman W and Hallen C	26600359		Mobilisation	4		4	
412	Prone position for acute respiratory failure in adults.	2015	The Cochrane database of systematic reviews	Bloomfield R and Noble DW and Sudlow A	26561745		Prone position	1	Low	1	Duplicate, also -> 525
413	Prolonged prone positioning under VV-ECMO is safe and improves oxygenation and respiratory compliance.	2015	Annals of intensive care	Kimmoun A and Roche S and Briday C and Vanhuyse F and Fay R and Girard N and Mandry D and Levy B	26538308		Prone position	4		4	Duplicate, also 3032
414	Early rehabilitation for severe acquired brain injury in intensive care unit: multicenter observational study.	2016	European journal of physical and rehabilitation medicine	Barbato M and Bargellesi S and Castioni CA and Bonaiuti D and Antenucci R and Benedetti A and Capuzzo V and Gamma F and Radeschi G and Citerio G and Colombo C and Del Casale L and Recubini E and Tosi S and Zanello M and D'Aurizio C and Spina T and Del Gaudio A and Di Rienzo F and Intiso D and Dallochio G and Feisatti G and Lavezi S and Zoppellari R and Gariboldi V and Lottin L and Melizza G and Molinero G and Mandala V G and Pignataro A and Montis A and Napoleone A and Pilla F and Pisu M and Semerjian M and Pagliaro G and Nardin L and Scarpini F and Zampolini M and Zava R and Nasseti MA and Piccolini C and Aloj F and Antonelli S and Zucchella C	26530213		Mobilisation	3		3	
415	Complications of Prone Positioning During Extracorporeal Membrane Oxygenation for Respiratory Failure: A Systematic Review.	2016	Respiratory care	Culbreth RE and Goodfellow LT	26464520		Prone position	1		4	
416	Implementation of a Progressive Mobilization Program in a Medical-Surgical Intensive Care Unit.	2015	Critical care nurse	Messer AE and Comer L and Ford S	26427973	not PICO					
417	Usual Care Physiotherapy During Acute Hospitalization in Subjects Admitted to the ICU: An Observational Cohort Study.	2015	Respiratory care	Skinner EH and Haines KJ and Berney S and Warillow S and Harrold M and Denethy L	26374909	not PICO					

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418	Early mobilisation in intensive care units in Australia and Scotland: a prospective, observational cohort study examining mobilisation practises and barriers.	2015	Critical care (London, England)	Harrold ME and Salisbury LG and Webb SA and Allison GT	26370550	not PICO					
419	Time for critically ill patients to regain mobility after early mobilization in the intensive care unit and transition to a general inpatient floor.	2015	Journal of critical care	Pandullo SM and Spilman SK and Smith JA and Kingery LK and Phile SM and Rondonelli RD and Sahr SM	26346813		Mobilisation	4		4	
420	Functional evolution of critically ill patients undergoing an early rehabilitation protocol.	2015	Revista Brasileira de terapia intensiva	Murakami FM and Yamaguti WP and Onoue MA and Mendes JM and Pedrosa RS and Maida AL and CDS and de Sales IC and de Brito CM and Rodrigues ME	26340157	not PICO					
421	Feasibility and safety of in-bed cycling for physical rehabilitation in the intensive care unit.	2015	Journal of critical care	Kho ME and Martin RA and Toonstra AL and Zanni JM and Mantelley EC and Nelliott A and Needham DM	26318234	not PICO					
422	A Multicenter Retrospective Review of Prone Position Ventilation (PPV) in Treatment of Severe Human H7N9 Avian Flu.	2015	PloS one	Xu Y and Deng X and Han Y and Zhou L and He W and Chen S and Nong L and Huang H and Zhang Y and Yu T and Li Y and Liu X	26317621	not PICO					
423	The Surgical Optimal Mobility Score predicts mortality and length of stay in an Italian population of medical, surgical, and neurologic intensive care unit patients.	2015	Journal of critical care	Piva S and Dora G and Minelli C and Michelini M and Turia F and Mazza S and D'Ottavi P and Moreno-Duarte I and Sottini C and Eikermann M and Latronico N	26315654	not PICO					
424	Effects of early physiotherapy with respect to severity of pneumonia of elderly patients admitted to an intensive care unit: a single center study in Japan.	2015	Journal of physical therapy science	Chigira Y and Takai T and Igusa H and Dobashi K	26311924		Mobilisation	4		4	
425	Physiotherapy for Patients on Awake Extracorporeal Membrane Oxygenation: A Systematic Review.	2016	Physiotherapy research international: the journal for researchers and clinicians in physical therapy	Polastri M and Loforte A and Dell'Amore A and Nava S	26274362		Mobilisation	1	High	3	
426	Prone positioning improves oxygenation in spontaneously breathing nonintubated patients with hypoxemic acute respiratory failure: A retrospective study.	2015	Journal of critical care	Scaravilli V and Grassetti G and Castagna L and Zanella A and Isgrys S and Lucchini A and Patroniti N and Bellani G and Pesenti A	26271685	not PICO					
427	Systematic review of enhanced recovery after gastro-oesophageal cancer surgery.	2015	Annals of the Royal College of Surgeons of England	Gemmili DJ and Humes DJ and Catton JA	26263799	not PICO					
428	[Short version S2e guidelines: "Positioning therapy and early mobilization for prophylaxis or therapy of pulmonary function disorders"].	2015	Der Anaesthetist	Ben T and Bischoff M and Ben-Porache U and Gebhardt K and Hendler D and Hermes C and Lewandowski K and Max M and Notherker M and Staudinger T and Tryba M and Weber-Carstens S and Wrigger W	26260196	Article type					
429	Implementation of the ABCDE Bundle to Improve Patient Outcomes in the Intensive Care Unit in a Rural Community Hospital.	2015	Dimensions of critical care nursing: DCCN	Kram SL and DiBartolo MC and Hinderer K and Jones RA	26244238	not PICO					
430	One-year experience with an acute respiratory distress syndrome standard operating procedure on intensive care unit.	2015	Journal of critical care	Luedike P and Totzeck M and Rammos C and Kindgen-Miles D and Kelm M and Rassaf T	26216357	not PICO					
431	Mobility therapy and central or peripheral catheter-related adverse events in an ICU in Brazil.	2015	Jornal brasileiro de pneumologia: publicacao oficial da Sociedade Brasileira de Pneumologia e Tisiologia	Lima NP and Silva GM and Park M and Pires-Neto RC	26176520	not PICO					
432	Physical rehabilitation for critical illness myopathy and neuropathy: an abridged version of Cochrane Systematic Review.	2015	European journal of physical and rehabilitation medicine	Mehrholtz J and Pohl M and Kugler J and Burridge J and Myrckel S and Elsner B	26158919	Article type					Duplicate, also -> 2210
433	Safety and Feasibility of a Very Early Verticalization in Patients With Severe Traumatic Brain Injury.	2015	The Journal of head trauma rehabilitation	Frazzitta G and Valicchi R and Zivi I and Sebastianelli L and Bonini S and Zarucchi A and Matteri D and Molatore K and Maestri R and Saltuari L	26147317	Article type					
434	Effect of Early Rehabilitation during Intensive Care Unit Stay on Functional Status: Systematic Review and Meta-Analysis.	2015	PloS one	Castro-Avila AC and SerVen P and Fan E and Gaete M and Mikan S	26132803		Mobilisation	1	Low	2	
435	Early mobilization practice in a single Brazilian intensive care unit.	2015	Journal of critical care	Pires-Neto RC and Lima NP and Cardim GM and Park M and Denelly L	26093803	not PICO					
436	Extra Physiotherapy in Critical Care (EPICC) Trial Protocol: a randomised controlled trial of intensive versus standard physical rehabilitation therapy in the critically ill.	2015	BMI open	Thomas K and Wright SE and Watson G and Baker C and Stafford V and Wade C and Chadwick TJ and Mansfield L and Wilkinson J and Shen J and Deverill M and Bonner S and Hugill K and Howard P and Henderson A and Roy A and Furneal J and Baudouin SV	26009576	Article type					
437	Mechanical ventilation and mobilization: comparison between genders.	2015	Journal of physical therapy science	Daniel CR and Alessandra de Matos C and Barbosa de Menezes J and Bucoski SC and Fritovz AR and Mora CT and Ruaro JA	25995558			4		4	
438	Safety profile and feasibility of early physical therapy and mobility for critically ill patients in the medical intensive care unit: Beginning experiences in Korea.	2015	Journal of critical care	Lee H and Ko Y and Suh GY and Yang JH and Park CM and Jeon K and Park YH and Chung CR	25957499			4		4	
439	Effect of early mobilization on discharge disposition of mechanically ventilated patients.	2015	Journal of physical therapy science	Ota H and Kawai H and Sato M and Ito K and Fujishima S and Suzuki H	25931747		Mobilisation	4		4	
440	Feasibility and Safety of Early Physical Therapy and Active Mobilization for Patients on Extracorporeal Membrane Oxygenation.	2015	ASAIO Journal (American Society for Artificial Internal Organs: 1992)	Ko Y and Cho YH and Park YH and Lee H and Suh GY and Yang JH and Park CM and Jeon K and Chung CR	25914950			4		4	
441	Very early mobilization in stroke patients treated with intravenous recombinant tissue plasminogen activator.	2015	Journal of stroke and cerebrovascular diseases: the official journal of National Stroke Association	Arnold SM and Dirikins M and Mooney LH and Freeman WD and Rowal B and Hickman MG and Davis OA	25869770	not PICO		3		3	
442	Use of Accelerometry to Monitor Physical Activity in Critically Ill Subjects: A Systematic Review.	2015	Respiratory care	Verceles AC and Hager ER	25852167	not PICO					
443	Early physical rehabilitation in intensive care patients with sepsis syndromes: a pilot randomised controlled trial.	2015	Intensive care medicine	Kiyambu G and Boots R and Paratz J	25851383		Mobilisation	2	High	3	
444	Understanding and reducing disability in older adults following critical illness.	2015	Critical care medicine	Brummel NE and Bates MC and Morandi A and Ferrante LE and Gill TM and Ely EW	25756418	not PICO					
445	Hemodynamic changes with manual and automated lateral turning in patients receiving mechanical ventilation.	2015	American journal of critical care: an official publication, American Association of Critical-Care Nurses	Hamlin SK and Hanneken SK and Padhye NS and Lodato RF	25727273	not PICO					
446	Role of Bed Design and Head-of-Bed Articulation on Patient Migration.	2015	Journal of nursing care quality	Davis KG and Kotowski SE	25723914	not PICO					
447	Early mobilization and recovery in mechanically ventilated patients in the ICU: a bi-national, multi-centre, prospective cohort study.	2015	Critical care (London, England)	Hodgson C and Bellomo R and Bennet S and Bailey M and Buhr H and Denelly L and Harold M and Higgins A and Presneil J and Saxena M and Skinner E and Young P and Webb S	25715872			3		3	
448	Oxygenation improves during the first 8-h of extended-duration prone positioning in patients with respiratory failure: a retrospective study.	2014	Journal of intensive care	Miyamoto K and Kawaze Y and Yasuda M and Shibata N and Nakashima T and Kida M and Kato S	25705410			4		4	
449	Effect of an evidence-based mobility intervention on the level of function in acute intracerebral and subarachnoid hemorrhagic stroke patients on a neurointensive care unit.	2015	Archives of physical medicine and rehabilitation	Rand ML and Darbinian JA	25701637			4		4	
450	Physiotherapy in the intensive care unit: an evidence-based, expert driven, practical statement and rehabilitation recommendations.	2015	Clinical rehabilitation	Sommers J and Engelbert RH and Dettling-Jurendorf D and Grosseink Rand Spronk PE and Nollet F and van der Schaaf M	25681407			1	6	5	
451	A repeated measures, randomised cross-over trial, comparing the acute exercise response between passive and active sitting in critically ill patients.	2015	BMC Anesthesiology	Collins		Duplicate					see-->1196
452	Physical Therapist Treatment of Patients in the Neurological Intensive Care Unit: Description of Practice.	2015	Physical therapy	Sottile PD and Nordon-Craft A and Malone D and Luby DM and Schenkmann M and Moss M	25655880	not PICO					
453	Benchmarking rehabilitation practice in the intensive care unit.	2015	Journal of the Intensive Care Society	Knott A and Stevenson M and Harlow SK	28979371	not PICO					
454	Passive orthostatism (tilt table) in critical patients: Clinicophysiological evaluation.	2015	Journal of critical care	Toccolini BF and Osaki EF and de Macedo Costa CR and Teixeira SN and Costa NL and Córdova MF and Leite MA and de Albuquerque CE and Jorge AC and Duarte PA	25622762	not PICO					
455	Adherence to the items in a bundle for the prevention of ventilator-associated pneumonia.	2014	Revista Brasileira de terapia intensiva	Sachetti A and Rech V and Dias AS and Fontana C and Barbosa GdL and Schlichthling D	25607263	not PICO					
456	The effects of prone position ventilation in patients with acute respiratory distress syndrome. A systematic review and metaanalysis.	2015	Medicina intensiva	Moro-Arteaga JA and Bernal-Ramirez OJ and Rodriguez SJ	25599942		Prone position	1	Low	2	

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457	Effect of early mobilization on sedation practices in the neurosciences intensive care unit: a preimplementation and postimplementation evaluation.	2015	Journal of critical care	Witcher R and Stoeger L and Dzierba AL and Silverstein A and Rosengart A and Brodie D and Berger K	25573283	not PICO					
458	Head-of-bed elevation and early outcomes of gastric reflux, aspiration and pressure ulcers: a feasibility study.	2015	American journal of critical care: an official publication, American Association of Critical-Care Nurses	Schalom M and Dykeman B and Metheny N and Kirby J and Pierce J	25554555		Positioning	2	High	4	
459	Manual vs automated lateral rotation to reduce preventable pulmonary complications in ventilator patients.	2015	American journal of critical care: an official publication, American Association of Critical-Care Nurses	Hanneman SK and Guskic GM and Hamlin SK and Wachtel SJ and Cron SG and Jones DJ and Oldham SA	25554551		Positioning	2	Some concerns	3	
460	Clinical and psychological effects of early mobilization in patients treated in a neurologic ICU: a comparative study.	2015	Critical care medicine	Klein K and Mulvey M and Bena JF and Albert NM	25517476		Mobilisation	3		3	
461	Expert consensus and recommendations on safety criteria for active mobilization of mechanically ventilated critically ill adults.	2014	Critical care (London, England)	Hodgson CL and Stiller K and Needham DM and Tipping CJ and Harrold M and Baldwin CE and Bradley S and Berney S and Caruana LR and Elliott D and Green N and Haines K and Higgins AM and Kaukonen KM and Leditschke IA and Nickels MR and Paratz J and Patman S and Skinner EH and Young PJ and Zanni JM and Denery L and Webb SA	25475522		Mobilisation	1	5	5	
462	Evaluation of head-of-bed elevation compliance in critically ill patients under mechanical ventilation in a polyvalent intensive care unit.	2015	Medicina intensiva	Llaurado-Serra M and Ulldemolins M and Gfelli-Barvè R and Coloma-Gómez B and Alabart-Lorenzo X and López-Gil A and Bodvè M and Rodríguez A and Jiméneiz-Herrera MF	25443331	not PICO					
463	Complications related to early mobilization of mechanically ventilated patients on Intensive Care Units.	2014	Nursing in critical care	Nydhali P and Ewers K and Brodda D	25382030	Article type					
464	Early mobility in the intensive care unit: Standard equipment vs a mobility platform.	2014	American journal of critical care: an official publication, American Association of Critical-Care Nurses	Roberts M and Johnson LA and Lalonde TL	25362668	not PICO					
465	An evaluation of neuromuscular electrical stimulation in critical care using the ICF framework: a systematic review and meta-analysis.	2016	The clinical respiratory journal	Burke D and Gorman E and Stokes D and Lennon O	25353646		NMES	1	Low	2	
466	A Review of Multifaceted Care Approaches for the Prevention and Mitigation of Delirium in Intensive Care Units.	2016	Journal of intensive care medicine	Collinsworth AW and Priest EL and Campbell CR and Vasilevskis EE and Masica AL	25348864	not PICO					
467	Enhancing rehabilitation of mechanically ventilated patients in the intensive care unit: a quality improvement project.	2015	Journal of critical care	McWilliams D and Weblin J and Atkins G and Bion J and Williams J and Elliott C and Whitehouse T and Snelson C	25316527		Mobilisation	4		4	
468	Neuromuscular electrical stimulation in mechanically ventilated patients: a randomized, sham-controlled pilot trial with blinded outcome assessment.	2015	Journal of critical care	Kho ME and Truong AO and Zanni JM and Cieśla ND and Brower RG and Palmer JB and Needham DM	25307979		NMES	2	High	3	
469	Neuromuscular electrical stimulation prevents muscle wasting in critically ill comatose patients.	2015	Clinical science (London, England : 1979)	Dirks ML and Hansen D and Van Acoche A and Dendale P and Van Loon LJ	25296344		NMES	2	Some concerns	4	
470	Out-of-bed extubation: a feasibility study.	2014	Revista Brasileira de terapia intensiva	Desheimer Neto FL and Vespu PS and Cremonese RV and Levêes CG and Raupp AC and Rodrigues Cdos S and de Andrade JM and Townsend Rda S and Maccari JG and Teixeira C	25295820	not PICO					
471	Neuromuscular electrical stimulation in critically ill patients in the intensive care unit: a systematic review.	2014	Einstein (Sao Paulo, Brazil)	Ferreira LL and Vanderlei LC and Valenti VE	25295458	retracted					
472	Enteral Nutrition in Patients Receiving Mechanical Ventilation in a Prone Position	2014	Journal of Parenteral and Enteral Nutrition	Saez de la Fuente		not PICO					see -> 1092
473	Feasibility of neuromuscular electrical stimulation immediately after cardiovascular surgery.	2015	Archives of physical medicine and rehabilitation	Iwatsu K and Yamada S and Iida Y and Sampei H and Kobayashi K and Kanuma M and Usui A	25218214	not PICO					
474	Effects of early rehabilitation therapy on patients with mechanical ventilation.	2014	World journal of emergency medicine	Dong ZH and Yu BX and Sun YB and Fang W and Li L	25215147		Mobilisation	2	High	3	
475	Impact of early mobilization on glycemic control and ICU-acquired weakness in critically ill patients who are mechanically ventilated.	2014	Chest	Patel BK and Pohlman AS and Hall JB and Kress JP	25180722	not PICO					
476	A quality improvement project sustainably decreased time to onset of active physical therapy intervention in patients with acute lung injury.	2014	Annals of the American Thoracic Society	Dinglas VD and Parker AM and Reddy DR and Colanuttini E and Zanni JM and Turnbull AE and Nelliott A and Cieśla N and Needham DM	25167767	not PICO					
477	Feasibility of neuromuscular electrical stimulation in critically ill patients.	2014	Journal of critical care	Segers J and Hermans G and Bruyninckx F and Meyfroidt G and Langer D and Gosselink R	25108833	Article type					
478	Early mobilization on continuous renal replacement therapy is safe and may improve filter life.	2014	Critical care (London, England)	Wang YT and Haines TP and Ritchie P and Walker C and Ansell TA and Ryan DT and Lim PS and Vij S and Acs R and Fealy N and Skinner EH	25069952		Mobilisation	3		3	
479	Application and effects of neuromuscular electrical stimulation in critically ill patients: systematic review.	2014	Medicina intensiva	Wageck B and Nunes GS and Silva FL and Damasceno MC and de Noronha M	25060511		NMES	1	Low	2	
480	Does prone positioning increase intracranial pressure? A retrospective analysis of patients with acute brain injury and acute respiratory failure.	2014	Neurocritical care	Roth C and Ferbert A and Deinsberger W and Kleffmann J and Kvistner S and Godau J and Schwler M and Tryba M and Gehring M	24985500		Prone position	4		4	
481	Clinical nurse specialist as change agent: delirium prevention and assessment project.	2014	Clinical nurse specialist CNS	Reimers M and Miller C	24911823	not PICO					
482	Effect of prone positioning during mechanical ventilation on mortality among patients with acute respiratory distress syndrome: a systematic review and meta-analysis	2014	CMAJ	Sud		Duplicate	Prone position				see -> 1088
483	Head-of-bed elevation improves end-expiratory lung volumes in mechanically ventilated subjects: a prospective observational study.	2014	Respiratory care	Spooner AJ and Corley A and Sharpe NA and Barnett AG and Caruana LR and Hammond NE and Fraser JF	24847096	not PICO					
484	Clinical outcomes of patient mobility in a neuroscience intensive care unit.	2014	The Journal of neuroscience nursing : journal of the American Association of Neuroscience Nurses	Mulvey M, Bena JF	nn	not PICO					
485	Functional electrical stimulation with cycling in the critically ill: a pilot case-matched control study.	2014	Journal of critical care	Parry SM and Berney S and Warrillow S and El-Ansary D and Bryant AL and Hart N and Pathucherry Z and Koopman R and Denery L	24768534		NMES	4		4	
486	Long-term survival in patients with severe acute respiratory distress syndrome and rescue therapies for refractory hypoxemia*.	2014	Critical care medicine	Khandelwal N and Hough CL and Bansal A and Veenstra DL and Treggiari MM	24732240	not PICO					
487	Influence of abdominal obesity on multiorgan dysfunction and mortality in acute respiratory distress syndrome patients treated with prone positioning	2014	Journal of Critical Care	Weig		Duplicate					see -> 1087
488	Seated and semi-recumbent positioning of the ventilated intensive care patient - effect on gas exchange, respiratory mechanics and hemodynamics.	2014	Heart & lung : the journal of critical care	Thomas P and Paratz J and Lipman J	24594247	not PICO					
489	Early mobilization of patients receiving extracorporeal membrane oxygenation: a retrospective cohort study.	2014	Critical care (London, England)	Abrams D and Javidfar J and Farrand E and Mongero LB and Agertons CL and Ryan P and Zennel D and Galuskin K and Morrone TM and Boerem P and Bacchetta M and Brodie D	24571627	Duplicate					see -> 1290
490	Effects of bilateral passive range of motion exercise on the function of upper extremities and activities of daily living in patients with acute stroke.	2014	Journal of physical therapy science	Kim HJ and Lee Y and Sohng KY	24567896		Mobilisation	3		4	
491	Safety of physical therapy interventions in critically ill patients: a single-center prospective evaluation of 1110 intensive care unit admissions.	2014	Journal of critical care	Sricharoencha T and Parker AM and Zanni JM and Nelliott A and Dinglas VD and Needham DM	24508202		Mobilisation	3		3	
492	Energy expenditure in the critically ill performing early physical therapy.	2014	Intensive care medicine	Hickmann CE and Roessler J and Castanares-Zapatero D and Herrera E and Mongodin A and Latere PF	24477456	not PICO					
493	Long-term recovery in critical illness myopathy is complete, contrary to polyneuropathy.	2014	Muscle & nerve	Koch S and Wollensheim T and Bierbrauer J and Haas K and Möhrig R and Deja M and Spies CD and Spuler S and Krebs M and Weber-Carstens S	24415656	not PICO					
494	Effectiveness and safety of the awakening and breathing coordination, delirium monitoring/management, and early exercise/mobility bundle.	2014	Critical care medicine	Balas MC and Vasilevskis EE and Olsen KM and Schmid KK and Shostrom V and Cohen MZ and Peltz G and Gannon DE and Sisson J and Sullivan J and Stothert JC and Laurre J and Nuss SL and Jawa RS and Freihart F and Ely EW and Burke WJ	24394627		Mobilisation	4		4	

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495	Effects of electrical muscle stimulation early in the quadriceps and tibialis anterior muscle of critically ill patients.	2014	Physiotherapy theory and practice	Falavigna LF and Silva MG and Freitas AL and Silva PF and Paiva JF and Nor MD and de Castro CM and Andrade Mdo A and Gallindo MA and Ribeiro LC and Ramos FF and de Andrade FM and de Franvila EE	24377663	not PICO					
496	The efficacy and safety of prone positional ventilation in acute respiratory distress syndrome: updated study-level meta-analysis of 11 randomized controlled trials.	2014	Critical care medicine	Lee JM and Bae W and Lee YJ and Cho YJ	24368348		Prone position	1	Low	1	
497	The impact of patient positioning on pressure ulcers in patients with severe ARDS: results from a multicentre randomised controlled trial on prone positioning	2014	Intensive Care Med	Girard		Duplicate	Prone position				see -> 1042
498	Early mobilization of mechanically ventilated patients: a 1-day point-prevalence study in Germany.	2014	Critical care medicine	Nydhj P and Ruhl AP and Bartoszek G and Dubb R and Filipovic S and Flohr HJ and Kallwasser A and Mende H and Rothaug O and Schuchhardt D and Schwabbauer N and Needham DM	24351373	not PICO					
499	Effect of physical therapy on muscle strength, respiratory muscles and functional parameters in patients with intensive care unit-acquired weakness.	2015	The clinical respiratory journal	Yosef-Brauner O and Adi N and Ben Shahaar T and Yehoshki E and Carmeli E	24345055		Mobilisation	2	Low	3	
500	Feasibility and safety of early combined cognitive and physical therapy for critically ill medical and surgical patients: the Activity and Cognitive Therapy in ICU (ACT-ICU) trial.	2014	Intensive care medicine	Brummel NE and Girard TD and Ely EW and Pandharipande PP and Morandi A and Hughes CG and Graves AJ and Shintani A and Murphy E and Work B and Pun BT and Boehm L and Gill TM and Dittus RS and Jackson LC	24257969	not PICO					
501	Prone positioning during veno-venous extracorporeal membrane oxygenation for severe acute respiratory distress syndrome in adults.	2014	Minerva anesthesiologica	Guervilly C and Hraiech S and Gariboldi V and Xeridat F and Dizier S and Toesca R and Ford JM and Adda M and Grisoli D and Collart F and Roch A and Papapan L	24257150	not PICO					
502	Using conformational positioning to reduce hospital-acquired pressure ulcers.	2014	Journal of nursing care quality	Brennan MR and Lacomti D and Gilchrist R	24002220	not PICO					
503	S2 guideline: positioning and early mobilization in prophylaxis or therapy of pulmonary disorders; revision 2015: S2 guideline of the German Society of Anaesthesiology and Intensive Care Medicine (DGAI)	2015	Der Anaesthetist 2015 Dec	Bein T		Article type					
504	Análise dos recursos terapêuticos utilizados na mobilização precoce em pacientes críticos (Analysis of the procedures used in early mobilization in critical patients) [Portuguese]	2019	Motricidade 2019	Silveira		Article type				3	
505	Dose of early therapeutic mobility: does frequency or intensity matter?	2018	Biological Research for Nursing 2018 Oct	Winkelmann C, Sattar, Momotaz H et al.	29902939		Mobilisation	2	Low	2	
506	A binational multicenter pilot feasibility randomized controlled trial of early goal-directed mobilization in the ICU	2016	Critical Care Medicine 2016 Jun	Hodgson	26968024		Mobilisation	2	Some concerns	3	
507	Effects that passive cycling exercise have on muscle strength, duration of mechanical ventilation, and length of hospital stay in critically ill patients: a randomized clinical trial // TODO Rob	2017	Jornal Brasileiro de Pneumologia 2017 Mar-Apr	Machado	28538781		Tools	2	Some concerns	2	
508	Early, goal-directed mobilization in the surgical intensive care unit: a randomised controlled trial [with consumer summary]	2016	Lancet 2016 Oct 1	Schaller et al			Mobilisation	2	Low	2	
509	Effects of intensive upright mobilisation on outcomes of mechanically ventilated patients in the intensive care unit: a randomised controlled trial with 12-months follow-up	2021	European Journal of Physiotherapy 2021	Amundadottir			Mobilisation	2	Some concerns	3	
510	Earlier and enhanced rehabilitation of mechanically ventilated patients in critical care: a feasibility randomised controlled trial [with consumer summary]	2018	Journal of Critical Care 2018 Apr	McWilliams		not PICO					
511	Inspiratory muscle training facilitates weaning from mechanical ventilation among patients in the intensive care unit: a systematic review [with consumer summary]	2015	Journal of Physiotherapy 2015 Jul	Elkins M, Dentice R	nn	not PICO					
512	Hemodynamic effects of electrical muscle stimulation in the prophylaxis of deep vein thrombosis for intensive care unit patients: a randomized trial	2017	Journal of Intensive Care 2017 Jan 13	Ojima M, Takegawa R, Hirose T, Ohnishi M, Shiozaki T, Shimazu T	28101364	not PICO					
513	Effects of threshold inspiratory muscle training versus conventional physiotherapy on the weaning period of mechanically ventilated patients: a comparative study	2014	International Journal of Physiotherapy and Research 2014 Mar-Apr	Dixit A, Prakash S	nn	not PICO					
514	Physical rehabilitation for critical illness myopathy and neuropathy (Cochrane review) [with consumer summary]	2015	Cochrane Database of Systematic Reviews 2015	Mehrholz		not PICO					
515	Early mobilization of trauma patients admitted to intensive care units: a systematic review and meta-analysis [with consumer summary]	2019	Injury 2019 Nov	Higgins			Mobilisation	1	Low	3	
516	Efficacy of neuromuscular electrical stimulation in patients with COPD followed in intensive care unit	2017	The Clinical Respiratory Journal 2017 Nov	Akar O, Günay E, Sarinc Ulasli S, Ulasli AM, Kacar E, Saraydin M, Solak O, Celik S, Unlu M	26597394		NMES	2	Some concerns	3	
517	Effect of adding different physiotherapy modalities to standard chest physiotherapy for critical ill patients	2018	Research Journal of Pharmaceutical, Biological and Chemical Sciences 2018 May-Jun	Ibrahim AA, Mohamed AR	nn	not PICO					
518	Evidenzbasierte Rehabilitation der Mobilität nach Schlaganfall (Evidence-based rehabilitation of mobility after stroke) [German]	2016	Neurologie	Dohle		Article type					
519	AMOBES (Active Mobility Very Early After Stroke): a randomized controlled trial	2017	Stroke 2017 Feb	Yemlik		not PICO					
520	High intensity physical rehabilitation later than 24 h post stroke is beneficial in patients: a pilot randomized controlled trial (RCT) study in mild to moderate ischemic stroke	2019	Frontiers in Neurology 2019 Feb 19	Tong		not PICO					
521	Sympathetic activity and early mobilization in patients in intensive and intermediate care with severe brain injuries: a preliminary prospective randomized study	2016	BMC Neurology 2016 Sep 13	Rocca		not PICO					
522	Neuromuscular electrical stimulation in critically ill traumatic brain injury patients attenuates muscle atrophy, neurophysiological disorders, and weakness: a randomized controlled trial	2019	Journal of Intensive Care 2019 Dec 12	Silva PE, de Cassia Marqueti R, Livino-de-Carvalho K, de Araujo NET, Castro J, da Silva VM, Vieira L, Souza VC, Dantas LO, Cipriano G Jr, Nóbrega OT, Babault N, Durigan JLQ	31890221		NMES	2	Some concerns	2	
523	A randomized trial of an intensive physical therapy program for patients with acute respiratory failure [with consumer summary]	2016	American Journal of Respiratory and Critical Care Medicine 2016 May 15	Moss M, Nordon-Craft A, Malone S	26651376		Mobilisation	2	High	3	
524	Repositioning for pressure injury prevention in adults [Cochrane review] [with consumer summary]	2020	Cochrane Database of Systematic Reviews 2020	Gillespie			Positioning	1		3	
525	Prone position for acute respiratory failure in adults.	2015	The Cochrane database of systematic reviews	Bloomfield R and Noble DW and Sudlow A	26561745	Duplicate					see -> 412
526	Interventions for preventing critical illness polyneuropathy and critical illness myopathy	2014	Cochrane Database of Systematic Reviews	Hermans	http://dx.doi.org/10.1002/14651858.CD006832.pub3		NMES	1	Low	2	
527	Interventions for preventing intensive care unit delirium in adults	2018	Cochrane Database of Systematic Reviews	Hering SF and Greve IE and Vasilevskis EE and Egerod I and Bekker Mortensen C and Wittljer AM and Svenningsen H and Thomsen T	nn		Mobilisation	1	Low	4	
528	Pharmacological interventions for the treatment of delirium in critically ill adults	2019	Cochrane Database of Systematic Reviews	Burry L and Hutton B and Williamson DR and Mehta S and Adhikari NKJ and Cheng W and Ely EW and Egerod I and Fergusson DA and Rose L		not PICO					
529	Very early versus delayed mobilisation after stroke	2018	Cochrane Database of Systematic Reviews	Langhorne P and Collier JM and Bate PJ and Thury MNT and Bernhardt J		not PICO					
1001	The effect of prone positioning in acute respiratory distress syndrome or acute lung injury: a meta-analysis.	2008	Intensive Care Med	Fekri Abouq	18350271		Prone position	1	Low	2	
1002	An updated study-level meta-analysis of randomised controlled trials on proning in ARDS and acute lung injury	2011	Crit Care	Abouq	21211010		Prone position	1	Low	1	
1003	No change in the regional distribution of tidal volume during lateral posture in mechanically ventilated patients assessed by electrical impedance tomography	2010	Clin Physiol Funct Imaging	Thomas Bein L, Franz Ploner S, Markus Ritzka, Michael Pfeffer, Hans J. Schlitt and Bernhard M. Graft	20491842	not PICO		3			
1004	Effect of prone positioning in patients with acute respiratory distress syndrome: A meta-analysis	2008	Crit Care Med	Abdullah H, Alsaghir, MD; Claudio M. Martin, MSc, MD, FRCPC	18216609		Prone position	1	Low	1	
1005	Haemodynamic impact of prone position for acute respiratory distress syndrome in cardiac intensive care	2017		Wang		not PICO		3			
1006	An evidence-based recommendation on bed head elevation for mechanically ventilated patients	2011	Crit Care	Barbara S Nili-Weise, Peter Gachmeyer, Axel Kolz, Ralf P Vonberg, Jan C Wille, and Peterhans J van den Broek, for the Bed Head Elevation Study Group	21481251		Positioning	1	Low	3	
1007	Effect of Prone Position on Lung Surfactant Composition and Function in Multiple Trauma Patients with Respiratory Dysfunction	2005	European Journal of Trauma	Michael Aufmkolk, Gregor Voggenreiter, Talla Matern, Claudia Beile Ritten, Hardy Kewitz, Christian Waydhas, Dieter Nast-Kolb		not PICO					
1008	Automated prone positioning and axial rotation in critically ill, nontrauma patients with ARDS	2010	J Intensive Care Med	Abubakr A. Bajwa, MD, Lisa Arasi, ARNP, Juan M. Canabal, MD, David J. Kramer, MD2	20338893	not PICO					
1009	Intra-abdominal Hypertension, Prone Ventilation, and Abdominal Suspension	2010	J Trauma	Egea-Guerrero	20386295	Article type					

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1010	New insights in positioning tracheally intubated and mechanically ventilated patients	2012	Clinical Pulmonary Medicine	Bassi							
1011	Combination of positioning therapy and venovenous extracorporeal membrane oxygenation in ARDS patients	2014	Perfusion	M Kredel, L Bischof, TE Wümm, N Roewer and RM Maullenhach	23985422	not PICO					
1012	Surprising physiologic side effects of an alternating pressure air mattress during prone position in an ARDS patient	2014	Intensive Care Med		24292874	Article type					
1013	Prone positioning reduces mortality from acute respiratory distress syndrome in the low tidal volume	2014	Intensive Care Med	Beitler et al.	24435203		Prone position	1	Low	1	
1014	Back to bench-inhaled iloprost and prone positioning in ARDS	2012	Minerva Anestesiol	Blanch	22643543	Article type					
1015	Influence of Prone Positioning on the measurement of transpulmonary thermofluorescence-derived variables in critically ill patients	2011	Acta Anaesthesiol Scand	Brücken	22092202	not PICO					
1016	The effects of the semirecumbent position on hemodynamic status in patients on invasive mechanical ventilation - prospective randomized multicenter analysis	2013	Crit Care	Göce	23622019		Positioning	3		3	
1017	Positive end-expiratory pressure, prone positioning, and activated protein C: a critical review of meta-analyses	2010	Minerva Anestesiol	Cesana	21102388	Article type					
1018	Prone positioning in trauma patients: nursing roles and responsibilities	2010	J Trauma Nurs	Chadwick	21157253	not PICO					
1019	Effects of prone positioning on lung protection in patients with acute respiratory distress syndrome	2013	Am J Respir Crit Care Med	Cornejo	23348974	not PICO					
1020	Effects of thoraco-pelvic supports during prone position in patients with acute lung injury/acute respiratory distress syndrome: a physiological study	2006	Crit Care	Chiumello	16764731	not PICO					
1021	Long-term outcomes in survivors of acute respiratory distress syndrome ventilated in supine or prone position	2012	Intensive Care Med	Chiumello	22187085		Prone position	3		4	
1022	PaCO2 and alveolar dead space are more relevant than PaO2/FiO2 ratio in monitoring the respiratory response to prone position in ARDS: a physiological study	2011	Crit Care	Charron	21791044	not PICO					
1023	Routine prone positioning in patients with severe ARDS: feasibility and impact on prognosis	2011	Intensive Care Med	Charron	21365313	not PICO					
1024	Prone Positioning for a Morbidly Obese Patient with Acute Respiratory Distress Syndrome: An Opportunity to Explore Intrinsic Positive End-expiratory Pressure-Lower Inflation Point Interdependence	2007	Anesthesiology	Chergul	17525601	Article type					
1025	Reducing the risk of ventilator-acquired pneumonia through head of bed elevation	2007	Nurs Crit Care	Keeley	17983363		Positioning	2	High	3	
1026	Effect of prone position on intra-abdominal pressure and renal function	2001	Intensive Care Medicine	Hering, Rudolf MD*, Wriggers, Hermann MD*, Vorwerk, Ralph MD*, Brensing, Karl A. MD*, Schröder, Stefan MD*, Zinslerling, Jörg MSc*, Hoelt, Andreas MD*, Spiegel, Tilman V. MD*, Putensen, Christian MD*	11323351	not PICO					
1027	Prone ventilation in trauma or surgical patients with acute lung injury and adult respiratory distress	2007	J Trauma	Davis	17495725		Prone position	4		5	
1028	The effect of head rotation on intracranial pressure in prone position: a randomized trial	2013	Brain Anesthesiol	Davis	22601263	not PICO					
1029	Therapeutic strategies for severe acute lung injury	2010	Crit Care Med	Diaz	20562704	not PICO					
1030	Posttraumatic ARDS: how to place patients who may offer technical problems in a prone position	2007	Minerva Anestesiol	D'IGNAZIO	17380103	Article type					
1031	Prone positioning: is it safe and effective?	2012	Crit Care Nurs Q	Dirkes	22157493	Article type					
1032	Prone positioning in patients with acute respiratory distress syndrome	2005	Nurs Stand	Esolt	16315529	Article type					
1033	Effects of Crystalloid versus Colloid and the α -2 Agonist Brevital vs. Plicabon on Intracranial Pressure during Prone Spine Surgery	2012	Anesthesiology	Farrag	21321965	not PICO					
1034	Prone positioning in acute respiratory distress syndrome: a multicenter randomized clinical trial	2008	Intensive Care Med	Fernandez	18427774		Prone position	2	Some concerns	3	
1035	Should prone positioning be routinely used for lung protection during mechanical ventilation?	2010	Respir Care	Fessler	20040127	Article type					
1036	The effect of prone ventilation on intra-abdominal pressure	2006	Clinical Intensive Care	Fletcher		Article type					
1037	Prone position augments recruitment and prevents alveolar overinflation in acute lung injury	2006	Am J Respir Crit Care Med	Elfichu Galatou, Elomona Kostant, Eugenia Svaras, Athanasios Kikoulas, Vasilios Koulouras, Stauras C. Efremidis, and Georgios Nakos	16645177		Prone position	3		3	
1038	Prone positioning improves survival in severe ARDS: a pathophysiologic review and individual patient meta-analysis	2010	Minerva Anestesiol	Gattinoni	20473258		Prone position	1			
1039	Prone positioning: beyond physiology	2010	Anesthesiology	Gattinoni	21042196	Article type					
1040	Body position changes redistribute lung computed tomographic density in patients with acute respiratory failure: impact and clinical fallout through the following 20 years	2013	Intensive Care Med	Gattinoni	24026295	Article type					
1041	Comparing intra-abdominal pressures in different body positions via a urinary catheter and nasogastric tube: a pilot study	2012	Ann Intensive Care	Rooban	22873412	not PICO					
1042	The impact of patient positioning on pressure ulcers in patients with severe ARDS: results from a multicenter randomized controlled trial on prone positioning	2014	Intensive Care Med	Girard R and Babot L and Ayala L and Richard JC and Guérin C	24352484		Prone position	3		3	Duplicate; also → 497
1043	Effects of prone and reverse Trendelenburg positioning on ocular parameters	2010	Anesthesiology	Grant	19996956	not PICO					
1044	The use of inhaled nitric oxide and prone position in an ARDS patient with severe traumatic brain injury during spine stabilization	2013	J Anesth	Gritti	23065049	Article type					
1045	Prone positioning in severe acute respiratory distress syndrome	2013	N Engl J Med	Guérin et al.	23688302		Prone position	2	Low	2	
1046	Cerebral oxygenation in the beach chair position before and during general anesthesia	2010	Minerva Anestesiol	Lange	20613688	not PICO					
1047	Prone position	2014	Curr Opin Crit Care	Guérin	24365167	Article type					
1048	Ventilation in the prone position in patients with acute lung injury/acute respiratory distress syndrome	2006	Curr Opin Crit Care	Guérin	16394784	Article type					
1049	Effect of head rotation on cerebral blood velocity in the prone position	2012	Anesthesiol Res Pract	Hojlund	22988456	not PICO					
1050	Feasibility and effectiveness of prone position in morbidly obese patients with ARDS: a case-control clinical study	2013	Chest	de Jong	23450309	not PICO					
1051	Beneficial hemodynamic effects of prone positioning in patients with acute respiratory distress syndrome	2013	Am J Respir Crit Care Med	Jozwiak	24102072		Prone position	3		3	
1052	Clinical review: Intra-abdominal hypertension: does it influence the physiology of prone ventilation?	2010	Crit Care	Krikpatrick	20801560	Article type					
1053	Prone positioning in hypoxic respiratory failure: meta-analysis of randomized controlled trials	2009	J Crit Care	Kopterides	19272544		Prone position	1	Low	2	
1054	Clinical Meaning of Early Oxygenation Improvement in Severe Acute Respiratory Distress Syndrome under Prolonged Prone Positioning	2010	Korean J Intern Med	Lee	20195404		Prone position	4		4	
1055	Does gas exchange response to prone position predict mortality in hypoxemic acute respiratory failure?	2006	Intensive Care Med	Lemasson	17019539	not PICO					
1056	A multicenter trial of prolonged prone ventilation in severe acute respiratory distress syndrome	2006	Am J Respir Crit Care Med	Mancebo	16356697			2	Low	2	
1057	Prone positioning for ARDS: defining the target	2010	Intensive Care Med	Marini	20130831	Article type					
1058	Trans-esophageal echocardiography in prone position during severe acute respiratory distress syndrome	2019	Shock	Saran	30475331						
1059	Early Mobilization in the Intensive Care Unit: Evidence and Implementation	2012	ICU Director	Lipshutz		Article type					
1060	Prone position reduces lung stress and strain in severe acute respiratory distress syndrome	2005	Eur Respir J	Mentzelopoulos		not PICO					Duplicate; also → 1304
1061	Influence of support on intra-abdominal pressure, hepatic kinetics of indocyanine green and extravascular lung water during prone positioning in patients with ARDS: a randomized crossover study	2005	Crit Care	Michalet	15987398	not PICO					
1062	Study of prone positioning to reduce ventilator-associated pneumonia in hypoxaemic patients	2010	Eur Respir J	Mounier	19741030		Prone position	3		3	
1063	Kinetic therapy in ARDS patients treated with extracorporeal membrane oxygenation	2012	Perfusion	Muellerbach		Article type					
1064	Oxygenation and cerebral perfusion pressure improved in the prone position	2006	Acta Anaesthesiol Scand	Nekuludov	16923086		Prone position	3		4	
1065	Recruitment maneuvers during prone positioning in patients with acute respiratory distress syndrome	2005	Crit Care Med	Ozanski	15544648	not PICO					
1066	Comparison of prone positioning and high-frequency oscillatory ventilation in patients with acute	2005	Crit Care Med	Papazian	16215365		Prone position	3			
1067	Relationship between gas exchange response to prone position and lung recruitability during acute respiratory	2009	Intensive Care Med	Protti	19189081	not PICO					
1068	Short-term effects of prone position in chronic obstructive pulmonary disease patients with severe acute hypoxemic and hypercapnic respiratory failure	2005	Intensive Care Med	Reignier	15999257	not PICO					
1069	Before-after study of a standardized ICU protocol for early enteral feeding in patients turned in the prone position	2010	Clin Nutr	Reignier	19709786	not PICO					
1070	Effects of prone position and positive end-expiratory pressure on lung perfusion and ventilation	2008	Crit Care Med	Richard	18596639	not PICO					
1071	Short-term effects of combining upright and prone positions in patients with ARDS: a prospective randomized study	2011	Crit Care	Robak	21955757	not PICO					
1072	Extended prone position ventilation in severe acute respiratory distress syndrome: a pilot feasibility study	2008	J Crit Care	Romero	19272543	not PICO					
1073	The influence of prone positioning on the accuracy of calibrated and uncalibrated pulse contour-derived cardiac index measurements	2013	Anesth Analg	Greenmann	23460570	not PICO					
1074	Acute respiratory distress syndrome	2010	BMJ Clin Ed	Sharma	21405126	not PICO					
1075	Effect of mechanical ventilation in the prone position on clinical outcomes in patients with acute hypoxemic respiratory failure: a systematic review and meta-analysis	2008	CMAJ	Sud	18427090		Prone position	1	Low	2	
1076	Prone ventilation reduces mortality in patients with acute respiratory failure and severe hypoxemia: systematic review and meta-analysis	2010	Intensive Care Med	S. Sud, J. O. Friedrich, N. K. J. Adhikari	20130832		Prone position	1	Low	2	
1077	Prone positioning in patients with moderate and severe acute respiratory distress syndrome: a randomized controlled trial	2009	JAMA	Paolo Taccone, MD and Antonio Pesenti, MD, Roberto Latini, MD, Federico Polli, MD, Federica Vagginelli, MD, Cristina Mietto, MD, Luisa Capapani, MD, Ferdinando Raimondo, MD, Giovanni Bordon, MD, Gaetano Iapichino, MD, Jordi Mancebo, MD, Claude Gue'rin, MD, Louis Ayaz, MD, Luis Blanch, MD, Roberto Fumagalli, MD, Gianni Tognoni, MD, Luciano Gattinoni, MD, FKCP	19903918		Prone position	2	Low	2	
1078	Prone position in mechanically ventilated patients with reduced intracranial compliance	2006	Acta Anaesthesiol Scand	THELANDERSSON	16923087		Prone position	3		4	
1079	Efficacy of prone ventilation in adult patients with acute respiratory failure: a meta-analysis	2008	J Crit Care	Tiruvisupatti	18359427		Prone position	1	Low	2	
1080	Prone positioning unloads the right ventricle in severe ARDS	2007	Chest	Vieillard-Baron	17925425		Prone position	4		4	
1081	Prone position improves mechanics and alveolar ventilation in acute respiratory distress syndrome	2005	Intensive Care Med	Vieillard-Baron	15703898	not PICO					
1082	Prone positioning improves oxygenation in post-traumatic lung injury—a prospective randomized trial	2005	J Trauma	Voggenreiter	16294072		Prone position	2	High	3	
1083	Utilization patterns and patient outcomes associated with differences in ventilator time and mortality	2011	Crit Care Med	Wilkey	21336108	not PICO					

Nummer	Titel	Jahr	Journal	Autoren	Pubmed-ID	Ausschlussgrund	Kapitel	LoE initial	Bias	LoE final	Duplikatverweise
1084	Abdominal obesity and prolonged prone positioning increase risk of developing sclerosing cholangitis in critically ill patients with influenza A-associated ARDS	2012	Eur J Med Res	Weg	23259907	not PICO					
1085	Bedside measurements of electrical impedance tomography and functional residual capacity during		Applied cardiopulmonary physiology: ACP	Karsten		not PICO					
1086	Oxygenation improvement with prone positioning in ECMO patients during post-traumatic ARDS	2012	Critical Care Medicine	Zonies, David; Creutzfeldt, Marcus; Graf, Bernhard; Hofmann, Hans-Stefan; Fang, Raymond; Bein, Thomas		Article type					
1087	Influence of abdominal obesity on multiorgan dysfunction and mortality in acute respiratory distress syndrome patients treated with prone positioning	2014	Journal of critical care	Weg T and Janitzas S and Zoller M and Dolch ME and Miller J and Frey L and Kneidinger N and Johnson T and Schubert M and Tribek M	24666961		Prone position	4		4	Duplicate; also --> 487
1088	Effect of prone positioning during mechanical ventilation on mortality among patients with acute respiratory distress syndrome: a systematic review and meta-analysis	2014	CMAJ : Canadian Medical Association journal = journal de l'Association medicale canadienne	Sud S and Friedrich JD and Adhikari NK and Taccone P and Mancebo J and Polli F and Latini R and Pesenti A and Curley MA and Fernandez R and Chan MC and Beuret P and Voggenreiter G and Sud M and Tognoni G and Gattinoni L and GuvDrin C	24863923		Prone position	1	Low	2	Duplikat; --> also 482
1089	Prone position during ECMO: safe and improves oxygenation.	2013	Int J Artif Organs	Kipping	24338657	not PICO					Duplicate, also 3037
1090	Lung Ventilation and Perfusion in Prone and Supine Positions with Reference to Anesthetized and Mechanically Ventilated Healthy Volunteers	2010	Anesthesiology	Nyren	20179506	not PICO					
1091	Mechanisms of the effects of prone positioning in acute respiratory distress syndrome	2014	Intensive Care Med	Guerrin	25266133	Article type					
1092	Enteral Nutrition in Patients Receiving Mechanical Ventilation in a Prone Position.	2016	JPEN: Journal of parenteral and enteral nutrition	Saez de la Fuente I and Saez de la Fuente J and Quintana Estelles MD and Garcia Girono R and Terceros Almanza LI and Sanchez Izquierdo JA and Montejó Gonzalez JC	25274497	not PICO					Duplicate; also --> 472
1093	Administration of enteral nutrition to adult patients in the prone position	2015	Intensive Crit Care Nurs	Lim	25262150	not PICO					
1094	A practical approach to the use of prone therapy in acute respiratory distress syndrome	2014	Expert Rev Respir Med	Alhota	24832577	Article type					
1095	1004: THE EFFECT OF INTENSIVE CARE UNIT MOBILITY THERAPY ON HEMODYNAMIC AND RESPIRATORY STATUS	2012	Critical Care Medicine	Umei	19942399	not PICO					
1096	An Early Mobilization Protocol Successfully Delivers More and Earlier Therapy to Acute Stroke Patients: Further Results From Phase II of AVERT	2012	Neurorehabil Neural Repair	van Wijk	21807984	not PICO					
1097	Introduction to Progressive Mobility	2010	Crit Care Nurse	Vollman	20360443	Article type					
1098	Understanding critically ill patients hemodynamic response to mobilization: using the evidence to make it safe and feasible	2013	Crit Care Nurs Q	Vollman	23221438	Article type					
1099	THE IMPLEMENTATION AND EVALUATION OF AN EARLY MOBILIZATION PROGRAM FOR CRITICALLY ILL ADULT ONCOLOGY PATIENTS	2011	Critical Care Medicine	Warren, Mary Lou; Prankin Kumar, Seelavji; Frankel, Shari; Ryan, Stacy; Nguyen, Vi; Garcia, Rebecca; Thomas, Mini; Withers, Laura; Nguyen, Quan		Article type					
1100	Abstract TP311: A Safe Early Mobility Protocol for Stroke Patients	2013	Stroke	Yamae		Article type					
1101	Respiratory physiotherapy and incidence of pulmonary complications in off pump coronary artery bypass graft surgery: an observational follow-up study	2009	BMC Pulm Med	Yáñez-Brage	19638209	not PICO					
1102	Outcome of physical therapy intervention on ventilator weaning and functional status	2010	Kaohsiung J Med Sci	Yang	20638039	not PICO					
1103	Rehabilitation therapy and outcomes in acute respiratory failure: an observational pilot project	2010	J Crit Care	Zanni	19942399	not PICO					
1104	Physiotherapy in intensive care is safe: an observational study	2007	Aust J Physiother	Zengas	18047463		Mobilisation	3		3	
1105	Developing a mobility protocol for early mobilization of patients in a surgical/trauma ICU	2012	Crit Care Res Pract	Zomorodi	2320154	not PICO					
1106	Intra-arterial blood pressure reading in intensive care unit patients in the lateral position	2012	J Clin Nurs	Aries	21973170	not PICO					
1107	Evaluation of twenty-four hour compliance of head of bed elevation	2011	Critical care medicine	Lai		Article type					
1108	Prävention der nosokomialen beatmungsassoziierten Pneumonie	2013	Bundesgesundheitsblatt Gesundheitsforschung	KRINKO	24344412	Article type					
1109	Early mobilization in the intensive care unit: a systematic review	2012	Cardiopulm Phys Ther J	Adler	22807649		Mobilisation	1		3	
1110	Positioning therapy in intensive care medicine in Germany. Results of a national survey	2007	Anaesthesist	Bein	17235540	Article type					
1111	Measures to prevent ventilator-associated pneumonia	2008	JCOM	Abad		Article type					
1112	Semirecumbent position to prevent ventilator-associated pneumonia is not evidence based	2010	J Crit Care	Silvestri	19828285	Article type					Duplicate; also --> 1249
1113	Physiotherapy in critically ill patients	2011	Revista Portuguesa de Pneumologia	Ambrosino		Article type					
1114	Adoption of a ventilator-associated pneumonia clinical practice guideline	2006	Worldviews Evid Based Nurs	Abbott	17177928	Article type					
1115	Comprehensive physiotherapy management in ARDS	2013	Minerva Anestesiol	Ambrosino	23306398	Article type					
1116	Acute lung injury: significance, treatment and outcome	2005	Curr Opin Anaesthesiol	Allen	16534341	Article type					
1117	Ventilator-associated pneumonia management in critical illness	2011	Curr Opin Gastroenterol	Albertos	21248638	Article type					
1118	Factors associated with the level of backrest elevation in a thoracic cardiovascular intensive care unit	2011	Am J Crit Care	Balieu	21885461	not PICO					
1119	Continuous lateral rotational therapy and systemic inflammatory response in posttraumatic acute lung injury: results from a prospective randomised study	2011	Injury	Bein	21939972		Positioning	2	Some concerns	3	
1120	Rehabilitation, weaning and physical therapy strategies in chronic critically ill patients	2012	Eur Respir J	Ambrosino	22135278	Article type		4			
1121	Alternative approaches to ventilator-associated pneumonia prevention	2011	Minerva Anestesiol	Berra	21150848	Article type		4			
1122	A novel method of continuous measurement of head of bed elevation in ventilated patients	2007	Intensive Care Med	Balazov	17399138	not PICO					
1123	Measurement of physiologic responses to mobilization in critically ill adults	2012	Intensive Crit Care Nurs	Amidei	22390919		Mobilisation	1		2	
1124	Continuous lateral rotation therapy to prevent ventilator-associated pneumonia: the neglected effects of gravity on pathogenesis of ventilator-associated pneumonia	2010	Crit Care Med	Staudinger	20168183	Article type					
1125	Mobilization in critical care: a concept analysis	2012	Intensive Crit Care Nurs	Amidei	22326102	Article type				3	
1126	Effect of head rotation during surgery in the prone position on regional cerebral oxygen saturation: A prospective controlled study	2014	Eur J Anaesthesiol	Andersen	24385413		Positioning	3		3	
1127	Impact of kinetic beds on the incidence of atelectasis in mechanically ventilated patients	2007	Am J Ther	Chandy	17515700	not PICO					
1128	Adherence to ventilator-associated pneumonia bundle and incidence of ventilator-associated pneumonia in the surgical intensive care unit	2010	Arch Surg	Bird	20479345		Positioning	4		4	
1129	An observational study of sitting out of bed in tracheostomized patients in the intensive care unit	2008	Physiotherapy	Balhadur		not PICO					
1130	Continuous lateral rotation therapy for acute hypoxemic respiratory failure: the effect of timing	2009	Dimens Crit Care Nurs	Fleisiger	19855209	Article type		4		5	
1131	What is new in the prevention of ventilator-associated pneumonia?	2011	Curr Opin Pulm Med	Blot	21326100	Article type					
1132	Endotracheal tube cuff pressure alteration after changes in position in patients under mechanical ventilation	2008	J Bras Pneumol	de Godoy	18545825	not PICO					
1133	Following tracheal intubation, mucus flow is reversed in the semirecumbent position: Possible role in the pathogenesis of ventilator-associated pneumonia	2008	Crit Care Med	Li Bassi	18176317	not PICO					
1134	Early activity is feasible and safe in respiratory failure patients	2007	Crit Care Med	Bailey	17133183		Mobilisation	3		3	
1135	Effects of staff training on the care of mechanically ventilated patients: a prospective cohort study	2009	Br J Anaesth	Bloos	19457893	not PICO					
1136	A multifaceted program to prevent ventilator-associated pneumonia: impact on compliance with preventive measures	2010	Crit Care Med	Boudma	20068461		Positioning	3		3	
1137	Culture of early mobility in mechanically ventilated patients	2009	Crit Care Med	Bailey	20046131	not PICO					
1138	Rotational bed therapy to prevent and treat respiratory complications: a review and meta-analysis	2007	Am J Crit Care	Goldhill	17192526		Positioning	1	High	3	
1139	Application of ventilator care bundle and its impact on ventilator-associated pneumonia incidence rate in the adult intensive care unit	2012	Saudi Med J	Bukhari	22421903		Positioning	4		4	
1140	Backrest position in prevention of pressure ulcers and ventilator-associated pneumonia: conflicting recommendations	2012	Heart Lung	Burk	22819601	Article type					
1141	Adverse hemodynamic effects of lateral rotation during mechanical ventilation	2008	Dimens Crit Care Nurs	Hamin	18510182		Positioning	4		4	
1142	Extending the ABCDE bundle to the post-intensive care unit setting	2013	J Gerontol Nurs	Balas	23758115		Mobilisation	4		4	
1143	Beatmung in Bauchlage beim akuten Lungenversagen	2007	Dtsch Arztebl	Bein		Article type					
1144	Prevention of Aspiration Pneumonia in Critically Ill Ventilated Patients Using the Head Up Takes a Village	2007	NUTRITION ISSUES IN GASTROENTEROLOGY	Parikh		Article type		5			
1145	Incidence and risk factors of ventilator-associated pneumonia in a tertiary care hospital	2013	Australas Med J	Charles	23671462	not PICO					
1146	The complex interplay between delirium, sedation, and early mobility during critical illness: applications in the trauma unit	2011	Curr Opin Anaesthesiol	Banerjee	21386669	Article type					
1147	Effect of body position changes on endotracheal tube cuff pressure in ventilated patients	2013	Crit Care	Takahashi		Article type					
1148	The effect of body position changes on stroke volume variation in 66 mechanically ventilated patients with sepsis	2012	J Crit Care	Dalhua	22459159	not PICO					
1149	Integrating a multidisciplinary mobility programme into intensive care practice (IMMTP): a multicentre collaborative	2012	Intensive Crit Care Nurs	Bassett	22221355	not PICO					
1150	Decreasing ventilator-associated pneumonia in a trauma ICU	2006	J Trauma	Cocanour	16832259	not PICO					
1151	Novel preventive strategies for ventilator-associated pneumonia	2012	Crit Care	Coppadoro	22429668	Article type					
1152	Effect of different seated positions on lung volume and oxygenation in acute respiratory distress syndrome	2013	Intensive Care Med	Delamonica	23344832	not PICO					
1153	The feasibility of early physical activity in intensive care unit patients: a prospective observational one-center study	2010	Respir Care	Bourdin	20406506	not PICO					
1154	The value of electrical impedance tomography in assessing the effect of body position and positive airway pressures on regional lung ventilation in spontaneously breathing subjects	2005	Intensive Care Med	Riedel	16195908	not PICO					
1155	Lateral-horizontal patient position and horizontal orientation of the endotracheal tube to prevent aspiration in adult surgical intensive care unit patients: a feasibility study	2010	Respir Care	Mauri	20196878		Positioning	3		3	
1156	The semi-seated position slightly reduces the effort to breathe during difficult weaning	2013	Intensive Care Med	Drye	23091247		Positioning	3		3	
1157	Consequences of bed rest	2009	Crit Care Med	Brower	20046130	Article type					
1158	Kinetic bed therapy to prevent nosocomial pneumonia in mechanically ventilated patients: a systematic review and meta-analysis	2006	Crit Care	Delaney	16684365		Positioning	1	Low	2	
1159	Postoperative Pulmonary Complications: Pneumonia and Acute Respiratory Failure	2012	Surg Clin North Am	Sachdev	22414416	not PICO					

Nummer	Titel	Jahr	Journal	Autoren	Pubmed-ID	Ausschlussgrund	Kapitel	LoE initial	Bias	LoE final	Duplikatverweise
1160	Lung volume and ventilation distribution changes by positioning and application of positive airway pressure in healthy subjects	2013	Applied Cardiopulmonary Pathophysiology	Freydag		not PICO					
1161	A study of ventilator-associated pneumonia: incidence, outcome, risk factors and measures to be taken for prevention	2010	Indian J Anaesth	Gudani	21224971	not PICO					
1162	Early exercise in critically ill patients enhances short-term functional recovery	2009	Crit Care Med	Burtin	19623052	Article type	Tools	2	Some concerns	2	
1163	Prevention and management of ventilator-associated pneumonia - The Care Bundle approach	2009	SAJCC	Gilligie			Positioning	3		3	
1164	Prolonged lateral sleep position impairs respiratory mechanics during continuous lateral rotation therapy in respiratory failure	2007	Intensive Care Med	Schellongowski	17252227	Article type					
1165	The Study of Activity in Older ICU Patients: An Integrative Review	2013	J Gerontol Nurs	Casey	23758116	Article type					
1166	Ventilator-associated pneumonia: the potential critical role of emergency medicine in prevention	2010	J Emerg Med	Grap	20692786	Article type					
1167	A prospective observational study of ICU patient position and frequency of turning	2008	Anaesthesia	Goldhill	18412649		Positioning	3		3	
1168	Active mobilisation for mechanically ventilated patients: a systematic review	2013	Arch Phys Med Rehabil	Li	23122265		Mobilisation	1		4	
1169	A prospective, randomized trial of continuous lateral rotation ("kinetic therapy") in patients with cardiogenic shock	2012	Clin Res Cardiol	Simonis	22729756		Positioning	2	Some concerns	3	
1170	Prevention of ventilator-associated pneumonia	2010	Expert Rev Anti Infect Ther	Klompas	20586564	Article type					
1171	Effect of backrest elevation on the development of ventilator-associated pneumonia	2005	Am J Crit Care	Grap	15980424	not PICO					
1172	Chair-Sitting Exercise Intervention Does Not Improve Respiratory Muscle Function in Mechanically Ventilated Intensive Care Unit Patients	2011	Respir Care	Chang	21513602	not PICO					
1173	Continuous lateral rotation therapy to prevent ventilator-associated pneumonia	2010	Crit Care Med	Staudinger	19788440		Positioning	2	Low	2	
1174	Clinicians' perception of head-of-bed elevation	2010	Am J Crit Care	Hines	20194613	not PICO					
1175	Effect of feedback on ventilator care bundle compliance: before and after study	2012	Nurs Crit Care	Lawrence	23061619	not PICO					
1176	EARLY MOBILITY (EM) PROTOCOL IN A SURGICAL INTENSIVE CARE UNIT (SICU): IMPACT ON RISK FACTORS FOR PRESSURE ULCER (PU) DEVELOPMENT.	2012	Critical Care Medicine	Cheung, Nora; To, Kathleen; Dickinson, Sharon; Tschannen, Dana; Shever, Leah; Park, Pauline; Raghavendran, Krishnan; Napolitano, Lena		Article type					
1177	The impact of continuous lateral rotation therapy in overall clinical and financial outcomes of critically ill patients	2008	Crit Care Nurs Q	Swadener-Culpepper	18574374		Positioning	4		4	
1178	Is there evidence to support the use of lateral positioning in intensive care? A systematic review	2007	Anaesthesia	Thomas	17444315		Positioning	1		4	
1179	Ventilator-associated pneumonia: role of positioning	2011	Curr Opin Crit Care	Li Bassi	21169827	Article type					Duplicate; also -> 1208
1180	Influence of upper body position on middle cerebral artery blood velocity during continuous positive airway pressure breathing	2007	Eur J Appl Physiol	Rasmussen	17638008	not PICO					
1181	Mobility interventions to improve outcomes in patients undergoing prolonged mechanical ventilation: a review of the literature	2008	Biol Res Nurs	Choi	18642738	Article type					
1182	Lateral positioning of ventilated intensive care patients: a study of oxygenation, respiratory mechanics, hemodynamics, and adverse events	2007	Heart Lung	Thomas	17628197		Positioning	2	Some concerns	3	
1183	Semi-recumbent body position fails to prevent healthcare-associated pneumonia in Vietnamese patients with severe tetanus	2012	Trans R Soc Trop Med Hyg	Loan	22197012	not PICO					
1184	Mobilizing the patient in the intensive care unit: The Role of Early Tracheostomy	2007	Phys Ther	Clark	23878462		Mobilisation	4		4	
1185	Community-acquired pneumonia	2008	BMC Clin Ed	Loeb	19445738	not PICO					
1186	The effect of lateral position on oxygenation in ARDS patients: a pilot study	2006	J Med Assoc Thai	Tongyoo	17718246		Positioning	3		4	
1187	Physiological rationale and current evidence for therapeutic positioning of critically ill patients	2009	AACN Adv Crit Care	Johnson	19638744	Article type					
1188	Evaluation of emergency department evidence-based practices to prevent the incidence of ventilator-acquired pneumonia	2012	J Nurs Care Qual	McCoy	21623233	not PICO					
1189	Mobilizing the Patient in the Intensive Care Unit: The Role of Early Tracheostomy	2007	Crit Care Clin	Cum	17307117	Article type					
1190	Ventilator-associated pneumonia: evolving definitions and preventive strategies	2013	Respir Care	Mietto	23709196	Article type					
1191	The effect of continuous head-of-bed monitoring on compliance with semi-recumbent positioning in patients on mechanical ventilation	2007	Chest	Kaye		Article type					
1192	Physical training is beneficial to functional status and survival in patients with prolonged mechanical ventilation	2011	J Formos Med Assoc	Chen	21930067	not PICO					
1193	Continuous lateral rotation therapy - a review	2012	Nurs Crit Care	Wanless	22229679	Article type					
1194	Study of the ability of ICU staff to set a bed to the semi-recumbent position	2009	Crit Care	Kane		Article type					
1195	Reducing ventilator-associated pneumonia in intensive care: impact of implementing a care bundle	2011	Crit Care Med	Morris	21666444	not PICO					
1196	A repeated measures, randomised cross-over trial, comparing the acute exercise response between passive and active sitting in critically ill patients	2015	BMC Anaesthesiol	Collings N and Cusack R	25670916	not PICO					Duplicate; also -> 451
1197	Rotational bed therapy after blunt chest trauma: a nationwide online survey on current concepts of care in Germany	2013	Injury	Wyen	22154048	not PICO					
1198	Comprehensive evidence-based clinical practice guidelines for ventilator-associated pneumonia: prevention	2008	Crit Care	Mucedere	18559490		Positioning	1	7	3	
1199	Abstract	2011	Am Phys Ther Ass	Crowford		Article type					
1200	Ultrasound evaluation of diaphragmatic mobility in different postures in healthy subjects	2007	J Bras Pneumol	Yamaguti	17982532	not PICO					
1201	Acute respiratory distress syndrome: evaluation and management	2012	Minerva Anesthesiol	Cortes	22357372	Article type					
1202	What is normal intra-abdominal pressure and how is it affected by positioning, body mass and positive end-expiratory pressure?	2009	Intensive Care Med	Keulenaar	19242675	Article type					
1203	Can the use of an early mobility program reduce the incidence of pressure ulcers in a surgical critical care unit?	2013	Crit Care Nurs Q	Dickinson	23221449	not PICO					
1204	Ventilator-Associated Pneumonia Bundled Strategies: An Evidence-Based Practice	2008	Worldviews Educ Nurs	O'Keefe-McCarthy	19076920	Article type					
1205	Measures to prevent nosocomial infections during mechanical ventilation	2012	Curr Opin Crit Care	Ramirez	22186217	Article type					
1206	Effects of Sitting Position and Applied Positive End-Expiratory Pressure on Respiratory Mechanics of Critically Ill Obese Patients Receiving Mechanical Ventilation	2013	Crit Care Med	Lemyze	23939358	not PICO					
1207	Early intervention (mobilisation or active exercise) for critically ill adults in the intensive care unit	2013	Cochrane Database Syst Rev	Dalron KA and Hoffmann TC and Beller EM	25582429	Article type					Duplicate; also -> 291
1208	Ventilator-associated pneumonia: role of positioning	2011	Current Opinion in Critical Care	Li Bassi		Duplicate					see -> 1179
1209	An Evaluation of Ventilator-Associated Pneumonia Process Measure Sampling Strategies in a Surgical ICU	2014	Am J Med Qual	Rawat	24061867	not PICO					
1210	Move to improve: the feasibility of using an early mobility protocol to increase ambulation in the intensive and intermediate care settings	2013	Phys Ther	Drolet	22976447	not PICO					
1211	Semi-recumbent position in ICU	2008	Crit Care & Shock	Li		not PICO					
1212	UTILIZATION OF THE KREB LIFT BED TO PROMOTE MOBILIZATION IN THE INTENSIFIED PATIENT IN THE MEDICAL INTENSIVE CARDIAC CARE UNIT	2021	Critical Care Medicine	Dany		Article type					
1213	A European care bundle for prevention of ventilator-associated pneumonia	2010	Intensive Care Med	Rello	20237759	not PICO					
1214	Semi-recumbent position versus supine position for the prevention of ventilator-associated pneumonia in adults requiring mechanical ventilation	2016	The Cochrane database of systematic reviews	Wang L and Li X and Yang Z and Tang X and Yuan Q and Deng L and Sun X	26743945		Positioning	1	Low	1	Duplicate; also -> 406
1215	Using evidence-based practice to prevent ventilator-associated pneumonia	2012	Crit Care Nurse	Sedwick	22855078	not PICO					
1216	THE EFFECT OF A SEDATION PROTOCOL INCORPORATING EARLY MOBILIZATION ON PRACTICE PATTERNS OF SEDATIVES AND ANALGESICS IN MEDICAL INTENSIVE CARE UNIT PATIENTS	2012	Critical Care Medicine	Dierber, Amy; Dasta, Joseph; Yip, Natalie; Chandra, Subani; Pavlovich, Katherine; Ryckick, Patricia; Perez-Mir, Ernesto; Boyle, Suzanne; Muir, Justin; Brodie, Daniel		Article type					
1217	Factors associated with low adherence to head-of-bed elevation during mechanical ventilation in Chinese intensive care units	2013	Chin Med J (Engl)	Jiang-Tao	23489786	not PICO					
1218	ICU early mobilization: from recommendation to implementation at three medical centers	2013	Crit Care Med	Engel	23989097	not PICO					
1219	Meta-analyses on the prevention and treatment of respiratory tract infections	2009	Infect Dis Clin North Am	Siempos	19393913	not PICO					
1220	A nursing clinical decision support system and potential predictors of head-of-bed position for patients receiving mechanical ventilation	2010	Am J Crit Care	Lyleria	20045847	not PICO					
1221	Evidence-based practice: use of the ventilator bundle to prevent ventilator-associated pneumonia	2007	Am J Crit Care	Tolentino-DelosReyes	17192523	not PICO					
1222	Physical rehabilitation of the critically ill trauma patient in the ICU	2013	Crit Care Med	Engels	23774338	Article type					
1223	Body positioning and its effect on oxygenation - a literature review	2006	Nurs Crit Care	Marklew	16471294	Article type					
1224	Bundles to prevent ventilator-associated pneumonia: how valuable are they?	2009	Curr Opin Infect Dis	Wip	19276975	Article type					
1225	Are maximal inspiratory breathing exercises or incentive spirometry better than early mobilization after cardiopulmonary bypass?	1983	Phys Ther	Dull	6844410	not PICO					
1226	Effect of patient positioning on intra-abdominal pressure monitoring	2007	Am J Surg	McBeth	17434374		Positioning	3		3	
1227	Agitation and pain during physiotherapy in intensive care	2010	Crit Care	Everingham		Article type					
1228	Postoperative pneumonia prevention program for the intensive surgical ward	2010	J Am Coll Surg	Wren	20347742	not PICO					
1229	Effectiveness of an aspiration risk-reduction protocol	2010	Nurs Res	Metheny	20010041	not PICO					
1230	Effects of tracheal orientation on development of ventilator-associated pneumonia: An experimental study	2012	Intensive Care Med	Zanella	22349422	not PICO					
1231	Critical illness neuromyopathy and the role of physical therapy and rehabilitation in critically ill patients	2012	Respir Care	Fan	22663968	Article type					
1232	Head-of-bed elevation in critically ill patients: a review	2013	Crit Care Nurse	Metheny	23727852	Article type					
1233	Randomized, controlled pilot study of early rehabilitation strategies in acute respiratory failure	2013	Critical Care	Files	2285368	Article type					
1234	Nurses' accuracy in estimating backrest elevation	2007	SAJCC	Windhor		not PICO					
1235	Falls and patient mobility in critical care: keeping patients and staff safe	2009	AACN Adv Crit Care	Flanders	19638748	Article type					
1236	Subjective assessment of backrest elevation: magnitude of error	2006	Heart Lung	Peterlini	17137940	not PICO					
1237	Early mobilization in critically ill patients: patients' mobilization level depends on health care provider's profession	2011	PM R	Garzon-Serrano	21497316	not PICO					
1238	Effects of elevating the head of bed on interface pressure in volunteers	2008	Crit Care Med	Peterson	18824905	not PICO					
1239	Respiratory and Hemodynamic Responses to Mobilization of Critically Ill Obese Patients	2012	Cardiopulm Phys Ther J	Garc	23207652	not PICO					
1240	Position adopted for the post operative patient and its effect on tidal volume	2013	Sri Lankan Journal of Anaesthesiology	Pinto		not PICO					
1241	ESICM 2010 WEDNESDAY SESSIONS 13 October 2010	2010	Intensive Care Medicine			Article type					
1242	Physiotherapy for adult patients with critical illness: recommendations of the European Respiratory Society and European Society of Intensive Care Medicine Task Force on Physiotherapy for Critically Ill Patients	2008	Intensive Care Med	Gosselink	18283429		Mobilisation	1		5	
1243	The use of bed-tilts to maintain recumbent positioning for critically ill mechanically ventilated patients (The RECURRENT study): multicentre before and after observational study	2010	Int J Nurs Stud	Gosselink	20471649	not PICO					
1244	Daily evaluation of every critically ill patient should include evaluation of his/her need for bedrest and immobility. Interdisciplinary team with physical therapists, occupational therapists, nurses and medical staff	2012	Curr Opin Crit Care	Gosselink	22951930	Article type					
1245	Semirecumbent positioning in ventilator-dependent patients: a multicenter, observational study	2010	Am J Crit Care	Rose	21041187	not PICO					
1246	Reduction in the incidence of Poststroke Nosocomial Pneumonia by Using the "Turn-mob" Program	2010	J Stroke Cerebrovasc Dis	Cusely	20123223	not PICO					

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1247	Measuring intrabulbar pressure with the head of the bed elevated 30 degrees	2010	Am J Crit Care	Shuster	20592210	not PICO					
1248	Association of postoperative pulmonary complications with delayed mobilisation following major abdominal surgery: an observational cohort study	2013	Physiotherapy	Bateman	23219632	not PICO					
1249	Semirecumbent position to prevent ventilator-associated pneumonia is not evidence based	2010	J Crit Care	Silvestri	19828285	Duplicate					see → 1112
1250	The development of a clinical management algorithm for early physical activity and mobilization of critically ill patients: synthesis of evidence and expert opinion and its translation into practice	2011	Clin Rehabil	Hanekom	21504951	not PICO					
1251	The way in which a physiotherapy service is structured can improve patient outcome from a surgical intensive care: a controlled clinical trial	2012	Crit Care	Hanekom	23232109		Mobilisation	3		3	
1252	Cardiac chair position improves ventilation and oxygenation in mechanically ventilated obese ICU patients	2010	Crit Care Intensive	van Beers		Article type					
1253	Mobile, awake and critically ill	2008	CMAJ	Herridge	18323288	Article type					
1254	Influence of semi-recumbent position on intra-abdominal pressure as measured by bladder pressure	2007	J Surg Res	Vasquez	17161433		Positioning	3		3	
1255	Clinical review: early patient mobilization in the ICU	2013	Crit Care	Hodgson	23672747	Article type					
1256	A simple device to increase rates of compliance in maintaining 30-degree head-of-bed elevation in ventilated patients	2008	Crit Care Med	Williams	18379241	not PICO					
1257	Transforming ICU culture to facilitate early mobility	2007	Crit Care Clin	Hopkins	17307118	Article type					
1258	Observational study of head of bed elevation adherence using a continuous monitoring system in a medical intensive care unit	2012	Respir Care	Wolken	23005904	not PICO					
1259	Improving physical function during and after critical care	2013	Curr Opin Crit Care	Hough	23995133	Article type					
1260	The evaluation of the effect of body positioning on intra-abdominal pressure measurement and the effect of intra-abdominal pressure at different body positioning on organ function and prognosis in critically ill patients	2012	J Crit Care	Yi	23033056		Positioning	3		3	
1261	Safety of mobilizing hospitalized adults: review of the literature	2013	J Nurs Care Qual	Kalisch	23232212	Article type					
1262	The surgical intensive care unit optimal mobility score predicts mortality and length of stay	2012	Crit Care Med	Kapostakis	23067620		Mobilisation	3		3	
1263	Physical therapy for the critically ill in the ICU: a systematic review and meta-analysis	2013	Crit Care Med	Kayambu	23528802		Mobilisation	1	Low		
1264	Mixed venous oxygen desaturation during early mobilization after coronary artery bypass surgery	2005	Acta Anaesthesiol Scand	KIRKEBY-GARSTAD	15954967	not PICO					
1265	Special considerations for mobilizing patients in the neurointensive care unit	2013	Crit Care Nurs Q	Kocan	23221441	Article type					
1266	Clinical trials of early mobilization of critically ill patients	2009	Crit Care Med	Kress	20046133	Article type					
1267	Sedation and mobility: changing the paradigm	2013	Crit Care Clin	Kress	23181519	Article type					
1268	What are the barriers to mobilizing intensive care patients?	2012	Cardiopulm Phys Ther J	Leditschke	22807652	not PICO					
1269	ICU early physical rehabilitation programs: financial modeling of cost savings	2013	Crit Care Med	Lord	23318489	not PICO					
1270	Early Mobilization in Critically Ill Patients	2012	ICU Director	Lunardi		Article type					
1271	Resource-efficient mobilization programs in the intensive care unit: who stands to win?	2013	Am J Surg	Mah	23806826	not PICO					
1272	The effect of physiotherapy on ventilatory dependency and the length of stay in an intensive care unit	2009	Int J Rehabil Res	Maholic	19011583		Mobilisation	4		4	
1273	Early physical rehabilitation in the ICU and ventilator liberation	2012	Respir Care	Mendez-Tellez	23013903	Article type					
1274	Early intensive care unit mobility therapy in the treatment of acute respiratory failure	2008	Crit Care Med	Morris	18596631		Mobilisation	3		2	
1275	Receiving early mobility during an intensive care unit admission is a predictor of improved outcomes in acute respiratory failure	2011	Am J Med Sci	Morris	21358312	not PICO					
1276	Implementation Of A Program Of Early Mobilization Of ICU Patients Without Additional Staff Resources Using A Capacity Assessment And Exercise Prescription Tool And Culture Change	2010	Am J Respir Crit Care	Mulamula		Article type					
1277	Rehabilitation of patients admitted to a respiratory intensive care unit	1998	Arch Phys Med Rehabil	Nava	9685104	not PICO					
1278	Early physical medicine and rehabilitation for patients with acute respiratory failure: a quality improvement project	2010	Arch Phys Med Rehabil	Needham	20382284	not PICO					
1279	Should we mobilise critically ill patients? A review	2009	Crit Care Resusc	O'Connor	20001881	Article type					
1280	Safety and feasibility of an early mobilization program for patients with aneurysmal subarachnoid hemorrhage	2013	Phys Ther	Okowski	22652987		Mobilisation	4		4	
1281	SOCIETY OF CRITICAL CARE MEDICINE CRITICAL CARE CONGRESS SAN DIEGO, CALIFORNIA, USA, JANUARY 15-19, 2011	2010	Critical Care Medicine			Article type					
1282	Fast-track concepts in major open upper abdominal and thoracoabdominal surgery: a review	2011	World J Surg	Olsen	21882022	Article type					
1283	Early exercise and attenuation of myopathy in the patient with sepsis in ICU	2011	Physical Therapy Reviews	Jennifer D Paratz, Geetha Kayambu		not PICO					
1284	Perioperative physiotherapy	2013	Curr Opin Anaesthesiol	Patel	23385319	Article type					
1285	Complications Of Critical Illness In Mechanically Ventilated Patients In A Randomized Controlled Trial Of Early Mobilization		D49. CLINICAL TRIALS IN CRITICAL CARE	Bhakti Patel, Jason Poston, Anne Pohlman, Jesse B. Hall, John P. Kress,		Article type					
1286	Early mobilization in the management of critical illness	2012	Crit Care Nurs Clin North Am	Pawlik	22920471	Article type					
1287	Early mobility and walking program for patients in intensive care units: creating a standard of care	2009	Am J Crit Care	Perne	19234100	Article type					
1288	Effect of Graded Early Mobilization versus Routine Physiotherapy on the Length of Intensive Care Unit Stay on Mechanically Ventilated Patients: A Randomized Controlled Study	2012	International Journal of Health & Allied Sciences	Bebraruah			Mobilisation	2	High	4	
1289	Physical rehabilitation of patients in the intensive care unit requiring extracorporeal membrane oxygenation: a small case series	2013	Phys Ther	Rahimi	23104895	Article type					
1290	Early mobilization of patients receiving extracorporeal membrane oxygenation: a retrospective cohort study	2014	Crit Care	Abrams	24571627		Mobilisation	4		4	Duplicate; also → 489
1291	Making strides in preventing ICU-acquired weakness: involving family in early progressive mobility	2013	Crit Care Nurs Q	Rukstale	23221450	Article type					
1292	Early physical and occupational therapy in mechanically ventilated, critically ill patients: a randomized controlled trial	2009	Lancet	Schwartz	19448324	Article type	Mobilisation	2	Low	2	
1293	Implementing early mobilization interventions in mechanically ventilated patients in the ICU	2011	Chest	Schweickert	22147819	Article type					
1294	The safety of mobilization and its effect on haemodynamic and respiratory status of intensive care patients	2009	Physiotherapy Theory and Practice	Stiller		not PICO					
1295	Safety Issues That Should Be Considered When Mobilizing Critically Ill Patients	2007	Crit Care Clin	Stiller	17307115	Article type					
1296	Physiotherapy in intensive care: an updated systematic review	2013	Chest	Stiller	23722822	Article type					
1297	Extending the benefits of early mobility to critically ill patients undergoing continuous renal replacement therapy: the Michigan experience	2013	Crit Care Nurs Q	Talley	23221445	Article type					
1298	Abstract	2013	J Burn Care & Research	Taylor		Article type					
1299	Patients with respiratory failure increase ambulation after transfer to an intensive care unit where early activity is a priority	2008	Crit Care Med	Thomsen	18379236	not PICO					
1300	Nurses...are in an ideal position to prevent the adverse outcomes associated with immobility	2007	Dimens Crit Care Nurs		17704667	Article type					
1301	The effect of increased mobility on morbidity in the neurointensive care unit	2012	J Neurosurg	Titsworth	22462507		Mobilisation	3		3	
1302	Bench-to-bedside review: mobilizing patients in the intensive care unit—from pathophysiology to clinical trials	2009	Crit Care	Truong	19566166	Article type					
1303	Impact of patient position on the incidence of ventilator-associated pneumonia: a meta-analysis of randomized controlled trials	2009	J Crit Care	Alexiou	19327314		Positioning	1	Unclear	2	
1304	Prone position reduces lung stress and strain in severe acute respiratory distress syndrome	2005	Eur Respir J	Mentzelopoulos	15738300	Duplicate					see → 1060
1305	afety and Efficacy of Mobility Interventions in Patients with Femoral Catheters in the ICU: A Prospective Observational Study	2013	Cardiopulm Phys Ther J	Perne	23801900		Mobilisation	3		3	
2000	Prone positioning in extubated patients with hypoxic respiratory failure after cardiac surgery: A retrospective study.	2022	Heart & lung: the journal of critical care	Li B and Yang L and Zheng J and Chu H and Guo X and Fang H	35649307	not PICO					
2001	Efficacy of Physiotherapy Interventions on Weaning in Mechanically Ventilated Critically Ill Patients: A Systematic Review and Meta-Analysis.	2022	Frontiers in medicine	Lippi L and de Sire A and D'Abraccio F and Polla B and Marotta N and Castello LM and Ammendolia A and Molinari C and Invernizzi M	35615094	not PICO					
2002	Effect of Awake Prone Positioning on Endotracheal Intubation in Patients With COVID-19 and Acute Respiratory Failure: A Randomized Clinical Trial.	2022	JAMA	Alhazzani W and Parhar KKS and Weatherall J and Al Duhalib Z and Alshahrani M and Al-Fares A and Buabbas S and Cherian SV and Munshi L and Fan E and Al-Hameed F and Chahabi J and Rahmatullah AK and Duan E and Tang JY and Lewis K and Lauzier F and Centofanti J and Rochwerg B and Cuglin S and Nelson K and Abubakari SA and Fiest KM and Stefflo HT and Tayeh H and Meade MO and Perri D and Solverson K and Niven DJ and Lim R and MvTiller MH and Belley-Cote E and Thabane L and Tamim H and Cook DJ and Arabi YM	35569448		Prone position	2	Some concerns	2	Duplicate with 4064
2003	Lung response to prone positioning in mechanically-ventilated patients with COVID-19.	2022	Critical care (London, England)	Protti A and Santini A and Pennati F and Chirurazi C and Ferrari M and Iapichino GE and Carenzo L and Dalla Corte F and Lanza E and Martinetti N and Alverri A and Cecconi M	35526009		Prone position	4		4	
2004	Impact of prone positioning on patients with COVID-19 and ARDS on invasive mechanical ventilation: a multicenter cohort study.	2022	J Bras Pneumol.	Cunha		not PICO					
2005	Mobilization and Rehabilitation Practice in ICUs During the COVID-19 Pandemic.	2022	Journal of intensive care medicine	Liu K and Nakamura K and Kudchadkar SR and Katsukawa H and Nydahl P and Ely EW and Takahashi K and Inoue S and Nishida O	35473451	not PICO					

Nummer	Titel	Jahr	Journal	Autoren	PubMed-ID	Ausschlussgrund	Kapitel	LoE initial	Bias	LoE final	Duplikatverweise
2006	Assessment of Awake Prone Positioning in Hospitalized Adults With COVID-19: A Nonrandomized Controlled Trial.	2022	JAMA Internal medicine	Qian ET and Gatto CL and Amusina O and Dear ML and Hiser W and Buie R and Kripalani S and Harrell FE Jr and Freundlich RE and Gao Y and Gong W and Hennessy C and Grooms J and Mattingly M and Bellam SK and Burke J and Zakaria A and Vasilevskis EE and Billings FT 4th and Pulley JM and Bernard GR and Lindsell CJ and Rice TW	35435937	not PICO					
2007	Efficacy and feasibility of awake proning in patients with COVID-19-related acute hypoxemic respiratory failure: an observational, prospective study.	2022	Irish journal of medical science	Alsa Y and Hassan T and Khan L and Algnri K and Malik MA	35420368	not PICO					
2008	Effects of Prone Positioning for Patients with Acute Respiratory Distress Syndrome Caused by Pulmonary Contusion: A Single-Center Retrospective Study	2022	Canadian Respiratory Journal	Liu X and Liu H and Liu S and Zhou W and Lan Q and Duan J and Li X and Zheng X	35400079		Prone position	4		4	
2009	Early prone positioning in acute respiratory distress syndrome related to COVID-19: a propensity score analysis from the multicentric cohort COVID-ICU network-the ProneCOVID study.	2022	Critical care (London, England)	Le Terrier C and Sigaud F and Lebbah S and Desmedt L and Hajage D and GuvDrin C and Pugin J and Primmaz S and Terzi N	35331332	not PICO					
2010	Prone positioning of patients with moderate hypoxaemia due to covid-19: multicentre pragmatic randomised trial (COVID-PRONE).	2022	BMJ (Clinical research ed.)	Fralick M and Colacchi M and Munshi L and Venus K and Fidler L and Hussein H and Britto K and Fowler R and da Costa BR and Dhalla J and Dunbar-Yaffe R and Branfield Day L and MacMillan TE and Zipursky J and Carpenter T and Tang T and Cooke A and Hensel R and Bregger M and Gordon A and Wordell C and Go S and Mandelzweig K and Castelfranci LA and Tanning D and Razak F and Verma AA	35321918		Prone position	2	Low	2	
2011	Awake prone positioning for non-intubated patients with COVID-19-related acute hypoxaemic respiratory failure: a systematic review and meta-analysis.	2022	The Lancet. Respiratory medicine	Li J and Luo J and Pavlov I and Perez Y and Tan W and Roca O and Tavernier E and Kharat A and McNicholas B and Ibarra-Estrada M and Vines DL and Bosch NA and Rampon G and Simpson SQ and Walkey AJ and Fralick M and Verma AA and Razak F and Harris T and Laffey JG and Guerin C and Ehrmann S	35305308		Prone position	1	Low	2	Duplicate, also 4025
2012	Feasibility of Prone position with a single operator for low resources ICU: Step-by-step technical description.	2022	Revista española de anestesiología y reanimación	Genelli N and Sotelo LC G and Barrios C and Pina D and Carboni Bispo I and Las Heras M	35261398	Article type					
2013	Time to active sitting position: One-year findings from a temporary COVID-19 intensive care unit.	2022	Respiratory medicine	Rossi V and Del Monaco C and Gambazza S and Santambrogio M and Blinda F and Retucci M and Privitera F and Mantero M and Bottino N and Laquintana D and Biali F	35203010	not PICO					
2014	Predicting Impact of Prone Position on Oxygenation in Mechanically Ventilated Patients with COVID-19.	2022	Journal of intensive care medicine	Bell J and William Pike C and Kresiel C and Sonti R and Cobb N	35195460	not PICO					
2015	Body position for preventing ventilator-associated pneumonia for critically ill patients: a systematic review and network meta-analysis	2022	Journal of intensive care	Pozuelo-Carrascosa DP and Cobo-Cuenca AI and Carmona-Torres JM and Laredo-Aguilera JA and Santacruz-Salas E and Fernandez-Rodriguez R	35193688		Positioning	1	Low	1	
2016	Sequential lateral positioning as a new lung recruitment maneuver: an exploratory study in early mechanically ventilated Covid-19 ARDS patients.	2022	Annals of intensive care	Roldán R and Rodriguez S and Barriga F and Tucci M and Victor M and Alcalá G and Villamonte R and Sun'ez-Sipmann F and Amato M and Brochard L and Tusman G	35150355	not PICO					
2017	Application of Precise Positioning for Sputum Expectoration in ICU Patients with Pulmonary Infection.	2022	Computational and mathematical methods in medicine	Wang J and Wang M and Li W	35132328	not PICO					
2018	Effects of Prone Positioning on Respiratory Mechanics and Oxygenation in Critically Ill Patients With COVID-19 Requiring Venovenous Extracorporeal Membrane Oxygenation.	2021	Frontiers in medicine	Laghani D and Charpentier J and Hamou ZA and Nguyen LS and Pene F and Cariou A and Mira JP and Jozwiak M	35111786		Prone position	3		3	
2019	Interfacility Transport of Mechanically Ventilated Patients with Suspected COVID-19 in the Prone Position.	2022	Prehospital emergency care	Pan A and Peddie M and Auger P and Parfeniuk D and MacDonald RD	35103581	not PICO					
2020	Can Cardiopulmonary Rehabilitation Facilitate Weaning of Extracorporeal Membrane Oxygenation (CaRe-ECMO)? Study Protocol for a Prospective Multidisciplinary Randomized Controlled Trial.	2021	Frontiers in cardiovascular medicine	Zheng Y and Sun H and Mei Y and Gao Y and Lv J and Pan D and Wang L and Zhang X and Hu D and Sun F and Li W and Zhang G and Zhang H and Chen Y and Wang S and Zhang Z and Li B and Chen X and Zhang J and Lu X	35071352	Article type					
2021	Awake Prone Positioning, High-Flow Nasal Oxygen and Non-Invasive Ventilation as Non-Invasive Respiratory Strategies in COVID-19 Acute Respiratory Failure: A Systematic Review and Meta-Analysis.	2022	Journal of clinical medicine	Schmid B and Griesel M and Fischer AL and Romero CS and Metzendorf MI and Weibel S and Fichtner F	35054084		Prone position	1	Low	2	
2022	Effect of prone positioning on survival in adult patients receiving venovenous extracorporeal membrane oxygenation for acute respiratory distress syndrome: a systematic review and meta-analysis.	2022	Intensive care medicine	Papathan L and Schmidt M and Hajage D and Combes A and Petit M and Lebreton G and Rillinger J and Giani M and Le Breton C and Duburcq T and Jozwiak M and Wengenmayer T and Roux D and Parke R and Loundou A and Guervilly C and Boyer L	35037993		Prone position	1	Low	2	
2023	Prone Positioning as a Potential Risk Factor for Deep Vein Thrombosis in COVID-19 Patients: A Hypothesis Generating Observation.	2021	Journal of clinical medicine	Gebhard CE and Zellweger N and Gebhard C and Hollinger A and Chrobok L and Stvhlil D and Schvönenberger CM and Todorov A and Achwanden M and Siegmund M	35011843	not PICO					
2024	Prone positioning during venovenous extracorporeal membrane oxygenation for acute respiratory distress syndrome: a pooled individual patient data analysis.	2022	Critical care (London, England)	Giani M and Reseogli E and Guervilly C and Rillinger J and Duburcq T and Petit M and Textoris L and Garcia B and Wengenmayer T and Grasselli G and Presenti A and Combes A and Foti G and Schmidt M	34986895		Prone position	1	Unclear	2	
2025	The effect of prone positioning on pressure injury incidence in adult intensive care unit patients: A meta-review of systematic reviews.	2021	Australian critical care : official journal of the Confederation of Australian Critical Care Nurses	Patton D and Latimer S and Asrar P and Walker RM and Moore Z and Gillespie BM and O'Connor T and Nugent L and Budri A and Brien NO and Chaboyer W	34916149		Prone position	1		2	
2026	Short and long-term complications due to standard and extended prone position cycles in CoVID-19 patients.	2022	Intensive & critical care nursing	Lucchini A and Russetto Y and Barreca N and Villa M and Casartelli G and Marcolini Y and Zyberli B and Cavagnuolo D and Verzella G and Rona R and Fumagalli R and Foti G	34895799		Prone position	4		4	
2027	A Tale of Two Waves: Changes in the Use of Noninvasive Ventilation and Prone Positioning in Critical Care Management of Coronavirus Disease 2019.	2021	Critical care explorations	Parker AJ and Mishra M and Tiwary P and Shanman M and Priya Sharma M and Duncan A and Shanmugam M and Bhatia K and Fullwood C and Martin AD and Wilson A	34881367	not PICO					
2028	Novel protocol combining physical and nutrition therapies, Intensive Goal-directed Rehabilitation with Electrical muscle stimulation and Nutrition (IGREEN) care bundle.	2021	Critical care (London, England)	Nakano H and Naraba H and Hashimoto H and Mochizuki M and Takahashi Y and Sonoo T and Ogawa Y and Matsushita Y and Shimono H and Inoue Y and Nakamura K	34863251		Mobilisation	4		4	
2029	Mechanical ventilation and prone positioning in pregnant patients with severe COVID-19 pneumonia: experience at a quaternary referral center.	2022	International journal of obstetric anesthesia	Wong MJ and Bhardwaj S and Lankford AS and Galey JL and Kodali BS	34840019	not PICO					
2030	Response to Awake Prone Position in Nonintubated Individuals With COVID-19.	2021	Respiratory care	Olivera VM and Barcellos RA and Piekala DM and Moretti MM and Welter DI and Candaten AE and Cloato SG and Machado KC and Depoiti GN	34815324	not PICO					
2031	Effect of Position Change From the Bed to a Wheelchair on the Regional Ventilation Distribution Assessed by Electrical Impedance Tomography in Patients With Respiratory Failure.	2021	Frontiers in medicine	Yuan S and Chi Y and Long Y and He H and Zhao Z	34805212	not PICO					

Nummer	Titel	Jahr	Journal	Autoren	Pubmed-ID	Ausschlussgrund	Kapitel	LoE initial	Bias	LoE final	Duplikatverweise
2032	Muscle strength and functional outcome after prone positioning in COVID-19 ICU survivors.	2022	Intensive & critical care nursing	Binda F and Rossi V and Gambazza S and Privitera E and Galazzi A and Marelli F and Santambrogio M and Adamini I and Grasselli G and Laquintana D	34789437	not PICO					
2033	The effects of the 45° semi-recumbent position on the clinical outcomes of mechanically ventilated patients: a systematic review and meta-analysis study.	2021	Annals of palliative medicine	Zhuo X and Pan L and Zeng X	34763512		Positioning	1	Unclear	1	
2034	Effect of Prone Positioning on Clinical Outcomes of Non-intubated Subjects With COVID-19.	2022	Respiratory care	Beran A and Mhanna M and Srouf O and Ayyesh H and Sajdeya O and Ghazaleh S and Mhanna A and Ghazaleh D and Khokher W and Maqsood A and Ahsaly R	34753813		Prone position	1	Low	2	
2035	Incidence and Practice of Early Prone Positioning in Invasively Ventilated COVID-19 Patients-Insights from the ProVENT-COVID Observational Study.	2021	Journal of clinical medicine	Stilma W and van Meenen DMP and Valk CMA and de Bruin H and Paulus F and Serpa Neto A and Schultz M and On Behalf Of The ProVENT-COVID Collaborative Group	34682907	not PICO					
2036	Brachial plexus injury and facial breakdown as a consequence of proning during COVID-19 treatment.	2021	Journal of the American Association of Nurse Practitioners	Ayala K and Redding J and Lynch W and MacKinney T	34636344	Article type					
2037	The Effect of Physical Therapy on Regional Lung Function in Critically Ill Patients.	2021	Frontiers in physiology	Eimer C and Freier K and Weiler N and Frerichs I and Beecher T	34616313	not PICO					
2038	Development, Implementation, and Impact of a Prone Team During the COVID-19 Intensive Care Unit Surge.	2021	Dimensions of critical care nursing : DCCN	O'Donoghue SC and Church M and Russell K and Gamboa KA and Hardman J and Sarge J and Moskowitz A and Hayes MM and Cocchi MN and DeSanto-Madeya S	34606222	not PICO					
2039	Prone Position in COVID-19 and -COVID-19 Acute Respiratory Distress Syndrome: An International Multicenter Observational Comparative Study.	2022	Critical care medicine	Camporota L and Sanderson B and Chiumello D and Terzi N and Augau L and Rimmelée T and Metuor R and Verstraete A and Cour M and Bohyd J and Pirou V and Beuret P and GuvDrin C	34582426	not PICO					
2040	Beneficial Effect of Prone Positioning During Venovenous Extracorporeal Membrane Oxygenation for Coronavirus Disease 2019.	2022	Critical care medicine	Zaqqoq AM and Barnett AG and Griffie M and MacLaren G and Jacobs JP and Heinsar S and Suen JY and Bassi GL and Fraser JF and Dalton HJ and Peek GJ	34582415		Prone position	3		3	
2041	Multidisciplinary team approach in critically ill COVID-19 patients reduced pronation-related complications rate: A retrospective cohort study.	2021	Annals of medicine and surgery (2012)	Ceruti S and Giotta A and Biggiogero M and Bona G and Saporito A and Faldarini N and Oliveri D and Molteni C and Petazzi S and Cipdevila X	34518782	not PICO					
2042	Effect of awake prone position on diaphragmatic thickening fraction in patients assisted by noninvasive ventilation for hypoxic acute respiratory failure related to novel coronavirus disease.	2021	Critical care (London, England)	Cammarota G and Rossi E and Vitali L and Simonte R and Battaglia S and Annicelli F and Verugno L and Biggiani M and Beccatini C and Tesoro S and Azzolina D and Giacomucci A and Navalesi P and De Robertis E	34429131	not PICO					
2043	Effect of early awake prone positioning application on prognosis in patients with acute respiratory failure due to COVID-19 pneumonia: a retrospective observational study.	2022	Brazilian journal of anesthesiology (Elsevier)	Altınay M and Sayan I and Türk HS and Cinar AS and Saygın F and Yücel T and İslamoğlu S and Özkan MT and Cetiner I	34411633		Prone position	4		4	Duplicate with 3071
2044	Rationale and design of the Prone Position and Respiratory Outcomes in Non-intubated COVID-19 Patients: The "PRONE" Study.	2021	Contemporary clinical trials	Friedman E and Franzoni J and Ko ER and Corey K and Mock J and Alawati N and Schwartz A and Drummond MB and Suber T and Linstrum K and Bain W and Castiblanco SA and Zak M and Zaeh S and Gupta I and Damarla M and Punjabi NM	34400361	not PICO					
2045	Prone positioning during venovenous extracorporeal membrane oxygenation for acute respiratory distress syndrome: a systematic review and meta-analysis	2021	Critical care (London, England)	Poon WH and Ramanathan K and Ling RR and Yang IX and Tan CS and Schmidt M and Shekar K	34384475		Prone position	1	Low	3	
2046	Safety and Feasibility of an Early Mobilization Protocol for Patients with Femoral Intra-Aortic Balloon Pumps as Bridge to Heart Transplant.	2022	ASAIO Journal (American Society for Artificial Internal Organs : 1992)	Chen S and Lester L and Piper GL and Toy B and Saputo M and Chan W and Fischer MG and Gidea C and Kon Zh and Moasami N and Smith DE	34380951	not PICO					
2047	Impact of prone position on outcomes of COVID-19 patients with spontaneous breathing.	2021	Acute and critical care	Bahoui M and Kharat S and Haddhi M and Maalla A and Turki D and Chirak K and Ammar R and Sulisi B and Hamida CB and Chelly H and Mahfoudh KB and Bouaziz M	34380290		Prone position	3		3	
2048	Prolonged Active Prone Positioning in Spontaneously Breathing Non-intubated Patients With COVID-19-Associated Hypoxic Acute Respiratory Failure With PaO2(FiO2) >150.	2021	Frontiers in medicine	Pierucci P and Ambrosino N and Di Lecce V and Dimitri M and Battaglia S and Boniello E and Portacci A and Resta O and Carpanzano GE	34368174	not PICO					
2049	Effect of prone positioning on oxygenation and static respiratory system compliance in COVID-19 ARDS vs. non-COVID ARDS.	2021	Respiratory research	Park J and Lee HY and Lee J and Lee SM	34362368	not PICO					
2050	Effectiveness of interventions to prevent pressure injury in adults admitted to acute hospital settings: A systematic review and meta-analysis of randomised controlled trials.	2021	International journal of nursing studies	Lovegrove J and Fulbrook P and Miles SJ and Steele M	34334175	not PICO					
2051	Compliance to not only prone but also lateral and supine positioning improves outcome in hospitalised COVID-19 patients.	2021	International journal of clinical practice	Ateu J and Erden A and Gvfrir B and Vajililayan A and Gvfrir B and Karakani V and alahiner ES and Gvfrir SC and fwsedu S and KVPVWkujahin O and Omma A	34324243	not PICO					
2052	Impact of Head-of-Bed Posture on Brain Oxygenation in Patients with Acute Brain Injury: A Prospective Cohort Study.	2021	Neurocritical care	Burnol L and Payen JF and Francony G and Skaare K and Manet R and Morel J and Bosson JL and Gergely L	34312789		Positioning	3		3	
2053	Pressure Injury Development, Mitigation, and Outcomes of Patients Prone for Acute Respiratory Distress Syndrome.	2022	Advances in skin & wound care	Capasso V and Snyderman C and Miguel K and Wang X and Crocker M and Chornoby Z and Vangel M and Walsh MA and Murphy J and Qualls S	34310362	not PICO					
2054	Effects of prone positioning during extracorporeal membrane oxygenation for refractory respiratory failure: a systematic review.	2021	Sh comprehensive clinical medicine	Liu C and Chen Y and Chen Y and Chen B and Xie G and Chen Y	34308257		Prone position	1	High	3	
2055	Adverse Events of Prone Positioning in Mechanically Ventilated Adults With ARDS.	2021	Respiratory care	Gonzalez Seguel F and Pinto-Concha JJ and Arens N and Leggel	34301802		Prone position	5		5	
2056	Prone-Positioning for Severe Acute Respiratory Distress Syndrome Requiring Extracorporeal Membrane Oxygenation.	2022	Critical care medicine	Petit M and Fellet C and Gaudemer A and Treluyer L and Lebreton G and Franchineau G and Hekimian G and Chommeloux J and Pineton de Chambrun M and Brechot N and Luyt CE and Combes A and Schmidt M	34259655		Prone position	4		4	
2057	Complications of prone positioning in patients with COVID-19: A cross-sectional study.	2021	Intensive & critical care nursing	Binda F and Galazzi A and Marelli F and Gambazza S and Villa L and Vinci E and Adamini I and Laquintana D	34244027		Prone position	3		4	
2058	Respiratory Physiology of Prone Positioning With and Without Inhaled Nitric Oxide Across the Coronavirus Disease 2019 Acute Respiratory Distress Syndrome Severity Spectrum.	2021	Critical care explorations	Ziehr DR and Alladina J and WolfME and Brat KL and Mahotra A and La Vita C and Beria L and Hibbert KA and Hardin CC	34151287	not PICO					
2059	Awake prone positioning in patients with hypoxic respiratory failure due to COVID-19: the PROFLO multicenter randomized clinical trial.	2021	Critical care (London, England)	RosvDrin J and von Oetreich E and Fors D and Jonsson Fagerlund M and Taabro K and Skorp P and Eby L and Campoccia Jald F and Johansson N and Bergström G and Frykholm P	34127046		Prone position	2	Low	2	
2060	Infection related catheter complications in patients undergoing prone positioning for acute respiratory distress syndrome: an exposed/unexposed study.	2021	BMC infectious diseases	Louis G and Belvevre T and Jacquot A and Hochard H and Aissa N and Kimmoun A and Goetz C and Levy B and Novy E	34098888	not PICO					
2061	Prognostic Factors to Predict ICU Mortality in Patients with Severe ARDS Who Received Early and Prolonged Prone Positioning Therapy.	2021	Journal of clinical medicine	Lee PH and Kuo CT and Hsu CY and Lin SP and Fu PK	34073532	not PICO					

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2062	Impact of prone position in non-intubated spontaneously breathing patients admitted to the ICU for severe acute respiratory failure due to COVID-19.	2021	Journal of critical care	Jouffroy R and Darmon M and Isnard F and Geri G and Beuron A and Faroukh M and Tudesq J and Nemlathi S and Demoule A and Azoulay E and Vieillard-Baron A	33990007	Duplicate					see -> 5
2063	Rhabdomyolysis in Severe COVID-19: Male Sex, High Body Mass Index, and Prone Positioning Confer High Risk.	2021	The Journal of surgical research	Mokhtari AK and Maurer LR and Christensen MA and Mohebb ME and Naar L and Alier O and Galtanidis A and Langeveld K and Kapeen C and Breen K and Velmahos GC and Kaafarani HMA	33975028	not PICO					
2064	Multivariate Meta-Analysis of the Mortality Effect of Prone Positioning in the Acute Respiratory Distress Syndrome.	2021	Journal of intensive care medicine	Moran JL and Graham PL	33942659	Duplicate					see -> 9
2065	Diminishing Efficacy of Prone Positioning With Late Application in Evolving Lung Injury.	2021	Critical care medicine	Xin Y and Martin K and Morais CCA and Delvecchio P and Gerard SE and Hamedani H and Herrmann J and Abatek and Lenoir A and Humayun S and Sidhu U and Petrov M and Reutlinger K and Mandelbaum T and Duncan I and Tustion N and Kadical S and Chatterjee S and Gee JC and Rui RR and Berra L and Cereda M	33938714	Duplicate					see -> 10
2066	Effect of serial awake prone positioning on oxygenation in patients admitted to intensive care with COVID-19.	2022	Postgraduate medical journal	Barker J and Pan D and Koeckerling D and Baldwin AJ and West R	33931557	Duplicate					see -> 12
2067	Prone Positioning of Nonintubated Patients With Coronavirus Disease 2019-A Systematic Review and Meta-Analysis.	2021	Critical care medicine	Ponnappa Reddy M and Subramaniam A and Afroz A and Billah B and Lim ZJ and Zubarev A and Blecher G and Trivelpati R and Ramanathan K and Wong SN and Brode D and Fan E and Shekar K	33927120	Duplicate					see -> 13
2068	Awake prone positioning in non-intubated patients for the management of hypoxemia in COVID-19: A systematic review and meta-analysis.	2021	Monaldi archives for chest disease - Archivio Monaldi per le malattie del torace	Pb S and Mittal S and Madan K and Mohan A and Tiwari P and Hadda V and Pandey RM and Guleria R	33926179	Duplicate					see -> 14
2069	Promoting Evidence-Based Practice in Acute Respiratory Distress Syndrome: A Systematic Review.	2021	Critical care explorations	Giovanni SP and Jennerich AL and Steel TL and Lokhandwala S and Alhazani W and Weiss CH and Hough CL	33912832	not PICO					
2070	Sustained oxygenation improvement after first prone positioning is associated with liberation from mechanical ventilation and mortality in critically ill COVID-19 patients: a cohort study.	2021	Annals of intensive care	Scaramuzzo G and Gamberini L and Tonetti T and Zani G and Ottaviani I and Mazzioli CA and Capozzi C and Giampalma E and Bacchi Reggiani ML and Bertellini L and Castelli A and Cavalli I and Colombo D and Crimaldi F and Damiani F and Fusari M and Gamberini E and Gordini G and Laici C and Lanza MC and Leo M and Marudi A and Nardi G and Papa R and Potavallo A and Russo E and Taddei S and Consoles G and Cappellini I and Ranieri VM and Volta CA and Guerri C and Spadaro S	33900484	Duplicate					see -> 15
2071	COVID-19 related pressure injuries in patients and personnel: A systematic review.	2021	Journal of tissue viability	Yu JN and Wu BB and Feng LP and Chen HL	33895045	not PICO					
2072	Targeted lateral positioning decreases lung collapse and overdistension in COVID-19-associated ARDS.	2021	BMC pulmonary medicine	Mijckel M and Ouyhal M and Borges JB and Alcala GC and Hladik D and Kuri-Togiani L and Tepl L and Amato M and Kitzner O	33894747	Duplicate					see -> 16
2073	The efficacy and tolerance of prone positioning in non-intubated patients with acute hypoxemic respiratory failure and ARDS: a meta-analysis.	2021	Therapeutic advances in respiratory disease	Tan W and Xu DY and Xu MI and Wang ZF and Dai B and Li LL and Zhao HW and Wang W and Kang J	33888007	Duplicate					see -> 17
2074	Role of head-of-bed elevation in preventing ventilator-associated pneumonia bed elevation and pneumonia.	2021	Nursing in critical care	Güner CK and Kutluyurkhan S	33884691	Duplicate					cross reference -> 18
2075	Use of high-flow nasal cannula in COVID-19 has improved effectiveness, safety and tolerability when applied in lateral position compared with prone positioning.	2021	Intensive & critical care nursing	Sanz-Moncusy M and Rosell-Ve-Sancho J and Garcia-Alamino JM	33875340	Article type					
2076	[Comparison of efficacy between veno-venous extracorporeal membrane oxygenation (VV-ECMO) and VV-ECMO combined with prone position ventilation for the treatment of acute respiratory distress syndrome].	2021	Zhonghua wei zhong bing ji jiu yi xue	Lyu G and Cai T and Jiang W and Liu M and Wang X	33834969	Language					
2077	Early awake proning in critical and severe COVID-19 patients undergoing noninvasive respiratory support: A retrospective multicenter cohort study.	2022	Pulmonology	Tonelli R and Pisani L and Tabby L and Comellini V and Prediletto I and Fantini R and Marchioni A and Andrisani D and Gozzi F and Bruzzi G and Manicardi L and Busani S and Musini C and Castanieri I and Bassi I and Carcano M and Tagariello F and Corsi G and d'Amico R and Girardis M and Nava S and Cini E	33824084	Duplicate					see -> 26
2078	Prone position in intubated, mechanically ventilated patients with COVID-19: a multi-centric study of more than 1000 patients.	2021	Critical care (London, England)	Langer T and Brioni M and Guzzardella A and Carlesso E and Cabrini L and Castelli G and Dalla Corte F and De Robertis E and Favaro M and Forastieri A and Forlini C and Girardis M and Grieco DL and Mirabella L and Noseda V and Previtali P and Protti A and Rona R and Tordini P and Torretti T and Zanoni F and Antonelli M and Foti G and Ranieri M and Pesenti A and Fumagalli R and Grasselli G	33823862	not PICO					
2079	Physiological Responses to In-Bed Cycle Ergometry Treatment in Intensive Care Unit Patients with External Ventricular Drainage.	2021	Neurocritical care	Zink EK and Kumble S and Beier M and George P and Stevens RD and Bahouth MN	33751389	Duplicate					see -> 29
2080	[Continuous prone position ventilation in patients with severe acute respiratory distress syndrome at high altitude].	2021	Zhonghua wei zhong bing ji jiu yi xue	Han J and Ma S and Sun B and Wang H and Sun X and Jia G	33729133	Language					
2081	Nursing care and prevalence of adverse events in prone position: Characteristics of mechanically ventilated patients with severe SARS-CoV-2 pulmonary infection.	2021	Nursing in critical care	Rodriguez-Huerta MD and Dinez-Fernandez A and Rodriguez-Alonso MJ and Robles-Gonzalez M and Marten-Rodriguez M and Gonzalez-Garcia A	33725746	Duplicate					see -> 30
2082	Effect of proning in patients with COVID-19 acute hypoxemic respiratory failure receiving noninvasive oxygen therapy.	2021	Lung India : official organ of Indian Chest Society	Sryma PB and Mittal S and Mohan A and Madan K and Tiwari P and Bhargava S and Tripathi A and Doshi R and Bhopale S and Viswanath R and Hadda V and Guleria R and Balawa B	33686973	Duplicate					see -> 32
2083	Ocular Injury Associated With Prone Positioning in Adult Critical Care: A Systematic Review and Meta-Analysis.	2021	American journal of ophthalmology	Patterson TJ and Currie P and Williams M and Shevlin C	33675753	Duplicate					see -> 33
2084	Prone Positioning in Spontaneously Breathing Subjects With Moderate or Severe ARDS During Invasive Ventilation.	2021	Respiratory care	Wiert A and Castaneres-Zapatero D and Wittebole X and Maerckx G and David G and Lutter PF and Gerard L	33653912	Duplicate					see -> 37
2085	Early Prone Positioning and Non-Invasive Ventilation in a Critical COVID-19 Subset: A Single Centre Experience in Southern Italy.	2021	Turkish thoracic journal	Simioli F and Annunziata A and Langella G and Martino M and Musella S and Fiorentino G	33646105	Duplicate					see -> 38
2086	Lung recruitment in the prone position after cardiac surgery: a randomised controlled study.	2021	British journal of anaesthesia	Martinson A and Houltz E and Wallinder A and Lindgren S and Thorsén A	33602580	not PICO					see -> 42
2087	Prone Positioning and Survival in Mechanically Ventilated Patients With Coronavirus Disease 2019-Related Respiratory Failure.	2021	Critical care medicine	Mathews KS and Soh H and Shaef S and Wang W and Bose S and Coca S and Gupta S and Hayek SS and Srivastava A and Brenner SK and Radbel L and Green A and Sutherland A and Leongberg-Yoo A and Shehata A and Schenck EJ and Short SAP and Herrin MA and Chan L and Leaf DE	33595960	Duplicate					see -> 43
2088	Non-specialist therapeutic strategies in acute respiratory distress syndrome.	2021	Minerva anestesologica	Longobardo A and Snow TA and Tam K and Singer M and Belling G and Arulkumar N	33594874	Prone position		1	Low	1	

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2089	Effects of Prone Positioning on Venous Return in Patients With Acute Respiratory Distress Syndrome.	2021	Critical care medicine	Lai C and Adda I and Teboul JL and Persichini R and Gavelli F and GuvDrin L and Monnet X	33590997	Duplicate					see -> 44
2090	Assisted mobilisation in critically patients with COVID-19.	2021	Pulmonology	Polastri M and Daniele F and Tagariello F	33582124	Article type					
2091	A randomized, controlled, multicenter clinical study of the "improved sitting Wuqinxin" intervention for mechanically ventilated patients in the intensive care unit.	2021	Medicine	Xie S and Liu J and Zhang L and Yao Y and Wang X and He Z and Lv L and Dong W and Liu J and Long K and Yang R	33530186	Duplicate					see -> 47
2092	Improving Prone Positioning for Severe Acute Respiratory Distress Syndrome during the COVID-19 Pandemic. An Implementation-Mapping Approach.	2021	Annals of the American Thoracic Society	Klaiman T and Silvestri JA and Srinivasan T and Szymanski S and Tran T and Credelio F and Spoling MW and Fuchs BD and Mullie S and Jablonski J and Lane-Fall MB and Kerlin MP	33522870	not PICO					
2093	Prone positioning in patients with acute respiratory distress syndrome, translating research and implementing practice change from bench to bedside in the era of coronavirus disease 2019.	2021	Australian critical care : official journal of the Confederation of Australian Critical Care Nurses	Apte Y and Jacobs K and Shewdin S and Murray A and Tung L and Ramanan M and Massey D	33487546	Duplicate					see -> 49
2094	Prone Position Ventilation in Neurologically Ill Patients: A Systematic Review and Proposed Protocol.	2021	Critical care medicine	Wright JM and Gorges C and Shammassian B and Labak CM and Herring E and Miller B and Alkhachroum A and Kottapally M and Huang Wright C and Rodgers RB and Sedney C and Ngunya LB and Stippier M and Sieg E and Babu MA and Hoffer A and Hegel R	33481406		Prone position	1		3	
2095	Can prone positioning be a safe procedure in patients with acute brain injury and moderate-to-severe acute respiratory distress syndrome?	2021	Critical care (London, England)	Bernon P and Moore S and Dupont G and Dailier F and Lukaszewicz AC and Balanvita B	33461575	Article type					
2096	Prone position pressure sores in the COVID-19 pandemic: The Madrid experience.	2020	Journal of plastic, reconstructive & aesthetic surgery : JPRAS	Ibarra G and Rivera A and Fernandez-Ibarburu B and Lorca-Garcia C and Garcia-Ruano A	33446462	Duplicate					see -> 51
2097	The effect of reverse Trendelenburg position versus semi-recumbent position on respiratory parameters of obese critically ill patients: A randomised controlled trial.	2021	Journal of clinical nursing	Hassan EA and Baraka AAE	33432600	Duplicate					see -> 52
2098	Prone positioning improves oxygenation and lung recruitment in patients with SARS-CoV-2 acute respiratory distress syndrome	2021	BMC Research Notes	Clarke		Duplicate					see -> 53
2099	Safety and Outcomes of Prolonged Usual Care Prone Position Mechanical Ventilation to Treat Acute Coronavirus Disease 2019 Hypoxemic Respiratory Failure.	2021	Critical care medicine	Douglas IS and Rosenthal CA and Swanson DD and Hiller T and Oakes J and Bach J and Whelchel C and Pickering J and George T and Kearns M and Hanley M and Mould K and Roark S and Mansori J and Mehta A and Schmidt EP and Neumeier A	33405409	Duplicate					see -> 57
2100	Facial Pressure Injuries from Prone Positioning in the COVID-19 Era.	2021	The Laryngoscope	Shearer SC and Parra KM and Newark A and Peesay T and Watai AB and Fernandes S and Gao WZ and Pierce ML	33389768	Duplicate					see -> 59
2101	Prone Positioning in Moderate to Severe Acute Respiratory Distress Syndrome Due to COVID-19: A Cohort Study and Analysis of Physiology.	2021	Journal of intensive care medicine	Shelhamer MC and Wesson PD and Solari IL and Jensen DL and Steele WA and Dimitrov VG and Kelly JD and Aziz S and Gutierrez VP and Vittinghoff E and Chung KK and Meonen VP and Ambris HA and Baxi SM	33380236	Duplicate					see -> 61
2102	Prone positioning for ARDS patients-tips for preparation and use during the COVID-19 pandemic.	2021	Canadian journal of anaesthesia = Journal canadien d'anesthesie	Parhar KKS and Zuege DJ and Sharif K and Knight G and Bagshaw SM	33367994	Article type					
2103	A single-centre study of safety and efficacy of prone positioning for critically ill patients on veno-venous extracorporeal membrane oxygenation.	2021	Australian critical care : official journal of the Confederation of Australian Critical Care Nurses	Chaplin H and McGuinness S and Parke R	33303317	Duplicate	Prone position				see -> 70
2104	Early neuromuscular electrical stimulation reduces the loss of muscle mass in critically ill patients - A within subject randomized controlled trial.	2021	Journal of critical care	Segers J and Vanhoosebeek J and Langer D and Charusisin N and Wei W and Fricks B and Demeyere I and Clerckx B and Casier M and Derese I and Derde S and Pauwels L and Van den Bergh G and Hermans G and Gosselink R	33285371	Duplicate					see -> 72
2105	The effect of oropharyngeal aspiration before position change on reducing the incidence of ventilator-associated pneumonia.	2021	European journal of clinical microbiology & infectious diseases : official publication of the European Society of Clinical Microbiology	Abbiyik A and Hepivovic Z and Enjer I and Uyar M and Vlatin P	33230628		Positioning	2	Some concerns	3	
2106	Prone positioning in mechanically ventilated patients with severe acute respiratory distress syndrome and coronavirus disease 2019.	2021	Acta anaesthesiologica Scandinavica	Gleissman H and Forngren A and Anderson E and Lindqvist E and Lipka Falck A and Cronhjort M and Dahlberg M and Gyllnther M	33165936	Duplicate	Prone position				see -> 84
2107	Prone positioning for patients intubated for severe acute respiratory distress syndrome (ARDS) secondary to COVID-19: a retrospective observational cohort study.	2021	British journal of anaesthesia	Weiss TT and Cerda F and Scott JB and Kaur R and Sungurli S and Mirza SH and Alolawati AA and Kaur R and Augustynovich AE and Liu J	33158500	Duplicate	Prone position				see -> 86
2108	Acute Effects of Sitting Out of Bed and Exercise on Lung Aeration and Oxygenation in Critically Ill Subjects.	2021	Respiratory care	Hickmann CE and Montecinos-Munoz NR and Cantanarez-Zapatero D and Arragada-Garrido RS and Jeria-Blanco A and Gizzatulil T and Roeseler J and Dugernier J and Wittebole X and Laterre PF	32994357	Duplicate	Mobilisation				see -> 101
2109	Evaluation of Oxygenation in 129 Prone Sessions in 34 Mechanically Ventilated COVID-19 Patients.	2021	Journal of intensive care medicine	Berrill M	32993451	Duplicate	Prone position				see -> 102
2110	Ultrasound variations of diaphragm activity between prone position versus supine position in ventilated patients: a cross-sectional comparative study.	2021	Journal of ultrasound	Trif A and Abdellatif S and Abdennabi C and Daly F and Touil Y and Ben Lakhal S	32870470	Duplicate	Prone position				see -> 114
2111	Critical Care Beds With Continuous Lateral Rotation Therapy to Prevent Ventilator-Associated Pneumonia and Hospital-Acquired Pressure Injury: A Cost-effectiveness Analysis.	2021	Journal of patient safety	Kang S and DiStefano MJ and Mehra F and Koszalka MV and Padula WV	30896557	Duplicate	Positioning				see -> 224
2112	A systematic review of the effect of early mobilization on length of stay for adults in the intensive care unit.	2022	Nursing in critical care	Morones J and Moore Z and Patton D and Watson C and Nugent L and Awar P and O'Connor T	35649531		Mobilisation	1	Low	1	
2113	Inspiratory Muscle Training Strategies in Tracheostomized Critically Ill Individuals.	2022	Respiratory care	Riceto Ratti LDS and Marques Tonella R and Castillo de Figueiredo L and Bredda Saad JA and Eras Falco Eo Al and Martins de Oliveira PP	35641000	not PICO					
2114	Clinical Practice Guideline: Early Mobilization and Rehabilitation of Critically Ill Burn Patients.	2022	Journal of burn care & research : official publication of the American Burn Association	Cartotto R and Johnson L and Rood JM and Lorelio D and Matherly A and Parry J and Romanowski K and Wiechman S and Bettencourt A and Carson JS and Lam HT and Nedelec B	35639543		Mobilisation	1	5	1	
2115	Effects of non-pharmacologic prevention on delirium in critically ill patients: A network meta-analysis.	2022	Nursing in critical care	Matsuura Y and Ohno Y and Toyoshima M and Ueno T	35624556		Mobilisation	1	Low	2	Duplicate; 4071
2116	A randomized controlled clinical trial of the effects of range of motion exercises and massage on muscle strength in critically ill patients.	2022	BMC sports science, medicine & rehabilitation	Rahiminehad E and Sadeghi M and Ahmadinejad M and Mirzadi Gohari S and Delghani M	35619171		Mobilisation	2	Some concerns	2	
2117	One Year Post-Discharge Outcomes After Implementation of an ICU Early Mobility Protocol.	2022	Dimensions of critical care nursing : DCCN	Tymkew H and Sledge JA and Vyers K and Arroyo C and Schalom M	35617586	not PICO		3			
2118	Effect of early mobilization combined with early nutrition on acquired weakness in critically ill patients (EMAS): A dual-center, randomized controlled trial.	2022	PloS one	Zhou W and Yu L and Fan Y and Shi B and Wang X and Chen T and Yu H and Liu J and Wang X and Liu C and Zheng H	35617287		Mobilisation	2	High	3	
2119	Therapeutic Potential of Electromyostimulation (EMS) in Critically Ill Patients-A Systematic Review.	2022	Frontiers in physiology	Baile M and Teschler M and Schvylor H and Pape P and Moores EC and Schmitz B	35615672		NMES	1		3	
2120	Impact of early mobilization on clinical and functional outcomes in patients submitted to coronary artery bypass grafting.	2022	American journal of cardiovascular disease	Cordero ALL and Lima ADS and Oliveira CM and Svr JP and Guimaraes ARF	35600284		Mobilisation	3	3		
2121	Use of Robots in Critical Care: Systematic Review.	2022	Journal of medical Internet research	Teng R and Ding Y and See KC	35576567	not PICO					
2122	The effect of early tracheal extubation combined with physical training on pulmonary rehabilitation of patients after lung transplantation: a randomized controlled trial.	2022	Journal of thoracic disease	Wu T and Zhou S and Wu B and Chen J and Zhu X and Cai Y	35572910	not PICO					
2123	Association between Early Mobilization in the ICU and Psychiatric Symptoms after Surviving a Critical Illness: A Multi-Center Prospective Cohort Study.	2022	Journal of clinical medicine	Watanabe S and Liu K and Nakamura K and Kozu R and Horibe T and Ishii K and Yauamura D and Takahashi Y and Namba T and Morita Y and Kanaya T and Suzuki S and Lefebvre AK and Katsukawa H and Kotani T	35566716		Mobilisation	3		3	

Number	Titel	Jahr	Journal	Autoren	PubMed-ID	Ausschlussgrund	Kapitel	LoE initial	Bias	LoE final	Duplikatverweise
2124	Passive motion of the lower extremities in sedated and ventilated patients in the ICU –a systematic review of early effects and replicability of interventions	2022	PloS one	Vollenweider R and Manetta A and Hylén N and de Bruin ED and Knols RH	35522550		Mobilisation	1		3	
2125	The role of acute in-patient rehabilitation on short-term outcomes after liver transplantation - A systematic review of the literature and expert panel recommendations.	2022	Clinical transplantation	Mina DS and Tandon P and Kow AWC and Chan A and Edbrooke L and Rapin DA and Spiro M and Selzner N and Denney L	35546523	not PICO					
2126	Effects of Early Physical Therapy and Follow-Up in Acute Severe Coronavirus Disease 2019 Pneumonia: A Retrospective Observational Study.	2022	Frontiers in medicine	Bordas-Martínez J and Lizarido-González A and Arencibia A and Tormo F and MatVlu L and Vicens-Zygmunt V and Bermudez G and Santos S and Molina-Molina M and Planas R and Suarez-CuartVm G	35479948		Mobilisation	4		4	
2127	Optimal timing of introducing mobilization therapy for ICU patients with sepsis.	2022	Journal of intensive care	Liu K and Shibata J and Fukuchi K and Takahashi K and Sonoo T and Ogura T and Goto T	35468868		Mobilisation	4		4	
2128	Comparative effectiveness of non-pharmacological interventions for preventing delirium in critically ill adults: A systematic review and network meta-analysis.	2022	International journal of nursing studies	Chen TL and Traynor V and Wang AY and Shih CY and Tu MC and Chuang CH and Chiu HY and Chang HR	35468538		Mobilisation	1	Low	1	
2129	Effect of Combined Protein-Enriched Enteral Nutrition and Early Cycle Ergometry in Mechanically Ventilated Critically Ill Patients—A Pilot Study	2022	Nutrients	Kagan I and Cohen J and Bendavid I and Kramer S and Meslari-Stahy R and Glas Y and Theilla M and Singer P	35458151		Tools	2	Some concerns	2	
2130	Effects of Mobilization among Critically Ill Patients in the Intensive Care Unit: A Single-center Retrospective Study.	2022	Progress in rehabilitation medicine	Watanabe S and Liu K and Morita Y and Kanaya T and Naito Y and Suzuki S and Hasegawa Y	35415279		Mobilisation	4		4	
2131	Early Neuromuscular Electrical Stimulation in Addition to Early Mobilization Improves Functional Status and Decreases Hospitalization Days of Critically Ill Patients.	2022	Critical care medicine	Campos DR and Bueno TBC and Anjos JSG and Zoppo D and Dantas BG and Gosselink R and Guirro RRI and Borges MC	35412472		NMES	2	Some concerns	2	Duplicate with 4015
2132	Factors Determining the Functional State of Cardiac Surgery Patients with Complicated Postoperative Period.	2022	International journal of environmental research and public health	Sumin AN and Olenik PA and Beedenezhnykh AV and Beedenezhnykh NA	35410009		NMES	3		3	
2133	The effects of abdominal-based early progressive mobilisation on gastric motility in endotracheally intubated intensive care patients: A randomised controlled trial.	2022	Intensive & critical care nursing	Deng LX and Lan-Cao and Zhang LN and Dun-Tian and Yang-Sun and Qing-Yang and Yan-Huang	35397977	not PICO					
2134	Effects of early rehabilitation in sepsis patients by a specialized physical therapist in an emergency center on the return to activities of daily living independence: A retrospective cohort study	2022	PloS one	Sakai Y and Yamamoto S and Karasawa T and Sato M and Nitta K and Okada M and Takahashi K and Ikegami S and Imamura H and Horiechi H	35358285		Mobilisation	4		4	
2135	Effects of early rehabilitation on functional outcomes in patients after coronary artery bypass graft surgery: a randomized controlled trial.	2022	The Journal of international medical research	Han P and Yu H and Xie F and Li M and Chen X and Yu X and Li J and Liu X and Shao B and Liu J and Liu Y and Liu Z and Liu X and Guo Q	35301878		Mobilisation	2	High	3	
2136	Feasibility of critical care ergometry: Exercise data of patients on mechanical ventilation analyzed as nine-panel plots.	2022	Physiological reports	van den Oever HLA and KWB M and Oosterwegel A and Klooster E and Zoethout S and Russink E and Langeveld B	35285178		Tools	3		4	
2137	Effects of Neuromuscular Electrical Stimulation on Lower Limb Muscle Strength After Living Donor Liver Transplant: A Case-Control Study.	2022	Transplantation proceedings	Hattori K and Mizuno Y and Ogura Y and Inoue T and Nagaya M and Jobara K and Kurata N and Nishida Y	35256203	not PICO					
2138	Neuromuscular Electrical Stimulation in Patients With Severe COVID-19 Associated With Sepsis and Septic Shock.	2022	Frontiers in medicine	Righetti RF and Grams ST and Costa WNDS and Saravala LT and de Sales ICD and Yamaguti WP	35252228	Article type					
2139	Early Mobilization Prescription in Patients Undergoing Cardiac Surgery: Systematic Review	2022	Braz J Cardiovasc Surg	Borges MGB and Borges DI and Ribeiro MO and Lima LSS and Macedo KCM and Nina VIDS	35244377		Mobilisation	1		3	
2140	The impact of physical medicine and rehabilitation consultation on clinical outcomes in the surgical intensive care unit: A prospective observational cohort study.	2022	Medicine	Chaiwat O and Sathikarnmanee B and Dajprathan P and Thanakiatwibun C and Jarungitaree S and Rattanamung S	35244073	not PICO					
2141	Modalities of Exercise Training in Patients with Extracorporeal Membrane Oxygenation Support.	2022	Journal of cardiovascular development and disease	Kourek C and Nanas S and Kotanidou A and Raidou V and Dimopoulos M and Adamopoulos S and Karabinis A and Dimopoulos S	35200688	Article type					
2142	Effectiveness of early rehabilitation following aortic surgery: a nationwide inpatient database study.	2022	General thoracic and cardiovascular surgery	Nakamura K and Ohbe H and Uda K and Matsui H and Yasunaga H	35182302		Mobilisation	4		4	
2143	The effects of physical therapy with neuromuscular electrical stimulation in patients with septic shock: Study protocol for a randomized cross-over design.	2018	Medicine	Lago AF and de Oliveira AS and de Souza HCD and da Silva JS and Basile-Filho A and Gastaldi AC	29419665	Duplicate	NMES				see --> 299
2144	Steps to recovery: Body weight-supported treadmill training for critically ill patients: A randomized controlled trial	2022	Journal of critical care	Kwakman RCH and Vloorn EL and Horn J and Nolle F and Engelbert RHH and Sommers J and van der Schaaf M	35124345		Tools	2	High	3	
2145	Safety and feasibility of physiotherapy in ICU-admitted severe COVID-19 patients: an observational study.	2022	Monaldi archives for chest disease - Archivio Monaldi per le malattie del torace	Rossi V and Santambrogio M and Del Monaco C and Retucci M and Tammaro S and Ceruti C and Sadler L and Alberti S and Privitera E and Grasselli G and Sotgiu G and Biasi F	35086328		Mobilisation	4		4	
2146	Effects of the intensity and activity time of early rehabilitation on activities of daily living dependence in mechanically ventilated patients.	2021	Progress in rehabilitation medicine	Watanabe S and Morita Y and Suzuki S and Kochi K and Ohno M and Liu K and Iida Y	35083381		Mobilisation	4		4	
2147	Factors associated with functional decline in an intensive care unit: a prospective study on the level of physical activity and clinical factors.	2022	Revista Brasileira de terapia intensiva	Schujmann DS and Gomes TT and Lunardi AC and Fu C	35081241	not PICO					
2148	Limited Mobility to the Bed Reduces the Chances of Discharge and Increases the Chances of Death in the ICU.	2021	Clinics and practice	Dos Santos Moraes TL and de Farias IMF and Rezende BS and de Carvalho FO and Santiago MS and Porto ES and Doria FM and Santana KCS and Gomes MY and Leite VS and Madruga RETTA and Dos Santos Maciel LY and Andrade JD and de Farias Neto JP and Aidar FJ and da Silva Junior WM	35076492		Mobilisation	4		4	
2149	Implementing an interprofessional user-centered design approach to develop a bedside leg exercise device.	2022	Technology and health care : official journal of the European Society for Engineering and Medicine	Rottetter R and Jenni B and Eggmann S and Meyer JT and Schmitt KU	35068429	not PICO					
2150	The Effects of Early Rehabilitation in the Intensive Care Unit for Patients with Severe COVID-19 Pneumonia: A Retrospective Cohort Study.	2022	Journal of clinical medicine	Kinoshita T and Nishimura Y and Unemoto Y and Fujita Y and Kouda K and Yasuoka Y and Miyamoto K and Kato S and Tajima F	35054051		Mobilisation	4		4	
2151	Association between nonpharmacological strategies and delirium in intensive care unit.	2022	Nursing in critical care	Bersanel MDR and Whitaker R	35052018	not PICO	Mobilisation				
2152	The Association Between Early Physical Therapy Initiation and Outcomes of Trauma Patients With and Without Traumatic Brain Injuries.	2022	The Journal of surgical research	Elkhalil A and Farfan D and Sutherland M and Newsome K and Morse J and Babcock J and McKenney M	35026443		Mobilisation	4		4	
2153	Out-of-the-ICU Mobilization in Critically Ill Patients: The Safety of a New Model of Rehabilitation.	2022	Critical care explorations	Sasano N and Kato Y and Tanaka A and Kusama N	35018344		Mobilisation	4		4	
2154	The impact of ABCDE bundle implementation on patient outcomes: A nationwide cohort study.	2022	Nursing in critical care	Frade-Mera MJ and Arias-Rivera S and Zaragoza-García I and Martí JD and Gallart E and San José V-D-Arribas A and Velasco-Sanz TR and Blázquez-Martínez E and Raureli-Torredó M	34994034		Mobilisation	3		3	
2155	Impact of early ambulation on functionality in patients undergoing valve replacement surgery.	2021	Journal of clinical and translational research	Cordero AL and Ren RD and Cruz HBD and Guimaraes AB and Gardenghi G	34988326		Mobilisation	3		3	
2156	[Application of bundle management strategy in early mobility of mechanically ventilated patients].	2021	Zhonghua wei zhong bing ji jiu yi xue	Wang Y and Sun Z and Ren X and Guo R	34980309	Language	Mobilisation				
2157	[Effect of early off-bed mobility on delirium in mechanically ventilated patients in intensive care unit: a prospective randomized controlled study].	2021	Zhonghua wei zhong bing ji jiu yi xue	Wu H and Gu T and Chen M and Li X and Zhang X and Wang Y and Quen M	34980307	Language	Mobilisation				
2158	5-Year Retrospective Analysis of a Vented Mobility Algorithm in the Burn ICU.	2022	Journal of burn care & research : official publication of the American Burn Association	O'Neill AM and Rush C and Griffith J and Roggy D and Boyd A and Hartman B	34978322		Mobilisation	4		4	

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2159	Mobility Levels With Physical Rehabilitation Delivered During or After Extracorporeal Membrane Oxygenation: A Marker of Illness Severity or an Indicator of Recovery?	2022	Physical therapy	Mayer KP and Pastva AM and Du G and Hatchett SP and Chang M and Henning AN and Maher B and Morris PE and Zwischenberger JB	34972871		Mobilisation	4		4	
2160	The effect of passive mobilization associated with blood flow restriction and combined with electrical stimulation on cardiorespiratory safety, neuromuscular adaptations, physical function, and quality of life in comatose patients in an ICU: a randomized controlled clinical trial.	2021	Trials	de Campos Biazon TMP and Libardi CA and Junior JCB and Caruso FR and da Silva Destro TR and Molina WG and Borghi-Silva A and Mendes RG	34969405	Article type					
2161	[Effect of rehabilitation initiation timing in the intensive care unit on outcomes in patients with pneumonia].	2021	Voprosy kurtologii, fizioterapii, i lechennoi fizicheskoi kul'tury	Andreychenko SA and Bychinn MV and Chyva TV and Yerenko AA	34965709	Language					
2162	[Meta-analysis of effects of neuromuscular electrical stimulation of lower limbs on patients with mechanical ventilation in intensive care unit].	2021	Zhonghua wei zhong bing ji jiu yi xue	Cheng J and Kong J and Wang R and Ji K and Gao H and Yao L and Ding N and Zhang Z	34955136	Language					
2163	Efficacy of Early and Enhanced Respiratory Physiotherapy and Mobilization after On-Pump Cardiac Surgery: A Prospective Randomized Controlled Trial.	2021	Healthcare (Basel, Switzerland)	Afonidis G and Moysidis DV and Papaioannou AS and Tagarakis C and Loudovikou A and Tagarakis G and Karapanagiotis GT and Alexiou IA and Foroulis C and Anastasiadis K	34946461		Mobilisation	2	Low	2	
2164	Association between out-of-bed mobilization during the ICU stay of elderly patients and long-term autonomy: A cohort study.	2022	Journal of critical care	Tholliere F and Allaouchiche B and Boyer H and Marie Mand Friggeri A and Vacheron CH	34844035		Mobilisation	3		3	
2165	[Effect of early rehabilitation exercise on blood pressure of elderly patients with septic shock: a single-center, prospective, randomized controlled study].	2021	Zhonghua wei zhong bing ji jiu yi xue	Wang Z and Yao J and Chen X and Wang G and Xing F	34839872	Language					
2166	The Effect of Early Mobilization on Respiratory Parameters of Mechanically Ventilated Patients With Respiratory Failure.	2022	Critical care nursing quarterly	Rezvani H and Esmaili M and Maroufizadeh S and Rahimi B	34818300	not PICO					
2167	High-protein intake and early exercise in adult intensive care patients: a prospective, randomized controlled trial to evaluate the impact on functional outcomes	2021	BMC Anesthesiol	de Azevedo JRA and Lima HCM and Frota PHDB and Nogueira IROM and de Souza SC and Fernandes EAA and Cruz AM	34773985		Mobilisation	2	Some concerns	2	
2168	[Lactate changes during mobilization of intensive care patients: A-retrospective observational study].	2022	Medizinische Klinik, Intensivmedizin und Notfallmedizin	Nesizius S and Oelinger L and Mur E and Joannidis M	34734298	not PICO	Mobilisation				
2169	Protocol for rapid onset of mobilisation in patients with traumatic spinal cord injury (PROMPT-SCI) study: a single-arm proof-of-concept trial of early in-bed leg cycling following acute traumatic spinal cord injury.	2021	BMJ open	Mac-Thiong JM and Richard-Denis A and Petit Y and Bernard F and Barthélemy D and Dionne A and Magnuson DSK	34725077	Article type					
2170	Effect of mechanical ventilation and pulmonary rehabilitation in patients with ICU-acquired weakness: a systematic review and meta-analysis.	2021	Annals of palliative medicine	Huang D and Zhao W and Chen Y and Shen B and Wang Y and Guan K and Luo W	34628885	not PICO					
2171	Multidisciplinary, early mobility approach to enhance functional independence in patients admitted to a cardiothoracic intensive care unit: a quality improvement programme.	2021	BMJ open quality	Jacob P and Gupta P and Shiju S and Omar AS and Ansari S and Mathew G and Varghese M and Pulimootil J and Varkey S and Mahinay M and Jesus D and Surendran P	34535456		Mobilisation	4		4	
2172	Physical Rehabilitation in the ICU: Systematic Review and Meta-Analysis	2021	Critical Care Medicine	Yi Tian Wang, Jenna K. Ling, Kimberley J. Haines, Elizabeth H. Skinner, Terry P. Haines			Mobilisation	1	Low	1	
2173	Effect of Early Rehabilitation in the Intensive Care Unit by a Dedicated Therapist Using a Rehabilitation Protocol: A Single-center Retrospective Study.	2021	Progress in rehabilitation medicine	Iwai K and Hisano T and Komada R and Miyai T and Sakai K and Torimoto M and Tsujita Y	34395932		Mobilisation	4		4	
2174	The effect of mobilization protocol on mobilization start time and patient care outcomes in patients undergoing abdominal surgery.	2022	Journal of clinical nursing	Koyuncu F and Tuglun E	34386134		Mobilisation	4		4	
2175	Mobilization of Patients Receiving Extracorporeal Membrane Oxygenation Before Lung Transplant.	2021	Critical care nurse	Patrick K and Adams A	34333616		Mobilisation	4		4	
2176	Impact of ABCDE Bundle Implementation in the Intensive Care Unit on Specific Patient Costs.	2022	Journal of intensive care medicine	Otusamy OT and Hsieh SJ and Gong MN and Gershengorn HB	34286609	not PICO					
2177	Association of the mobility level of critically ill adult patients with the success of extubation: protocol for a cohort study.	2021	BMJ open	Pal C and Fu C and Carvalho CRB and Auler VJfior LOC and Yamauchi LY	34266834	Article type					
2178	Early rehabilitation after acute myocardial infarction: A nationwide inpatient database study.	2021	Journal of cardiology	Nakamura K and Ohbe H and Uda K and Fushimi K and Yasunaga H	34229920		Mobilisation	4		3	
2179	Roles of Early Mobilization Program in Preventing Muscle Weakness and Decreasing Psychiatric Disorders in Patients with Coronavirus Disease 2019 Pneumonia: A Retrospective Observational Cohort Study.	2021	Journal of clinical medicine	Kotani T and Sugiyama M and Matsuzaki F and Kubodera K and Saito J and Kaneki M and Shono A and Maruo H and Mori M and Ohta S and Kasai F	34209010	not PICO	Mobilisation				
2180	Risk Factors of Patient-Related Safety Events during Active Mobilization for Intubated Patients in Intensive Care Units—A Multi-Center Retrospective Observational Study	2021	Journal of Clinical Medicine	Katsukawa H and Ota K and Liu K and Morita Y and Watanabe S and Sato K and Ishii K and Yasumura D and Takahashi Y and Tani T and Osaki H and Namba T and Kono R and Kotani T	34199207		Mobilisation	4		4	
2181	Early rehabilitation nursing in ICU promotes rehabilitation of patients with respiratory failure treated with invasive mechanical ventilation.	2021	American journal of translational research	Jin Y and Di J and Wang X	34150113		Mobilisation	3		3	
2182	Early Mobilization during Extracorporeal Membrane Oxygenation for Cardiopulmonary Failure in Adults: Factors Associated with Intensity of Treatment.	2022	Annals of the American Thoracic Society	Abrams D and Madhah P and Eckhardt CM and Short B and Yip NH and Parekh M and Serra A and Dubois RL and Saleem D and Agerstrand C and Scala P and Benvenuto L and Arcusio JM and Sonett JR and Takeda K and Meier A and Beck J and Ryan P and Fan E and Hodgson CL and Bacchetta M and Brodie D	34077700		Mobilisation	4		4	Dupliat with 3118
2183	Effect of Graded Early Mobilization on Psychomotor Status and Length of Intensive Care Unit Stay in Mechanically Ventilated Patients.	2021	Indian journal of critical care medicine: peer-reviewed, official publication of Indian Society of Critical Care Medicine	Das B and Saha S and Kabir F and Hossain S	34045809	Duplicate	Mobilisation				see -> 2
2184	Physiological abnormalities and adverse events during physical therapy in the intensive care unit after cardiac surgery: A prospective observational study.	2021	Brazilian journal of physical therapy	Sousa MLA and Coimbra VRM and Takei MT and Melo CCA and Feltrim MIZ and Nozawa E	34045123	Duplicate	Mobilisation				see -> 3
2185	The experiences of cardiac surgery critical care clinicians with in-bed cycling in adult patients undergoing complex cardiac surgery.	2021	Disability and rehabilitation	Newman ANL and Kho ME and Harris JE and Fox-Robichaud A and Solomon P	34027750	not PICO	Tools				
2186	Mobilization During Critical Illness: A Higher Level of Mobilization Improves Health Status at 6 Months, a Secondary Analysis of a Prospective Cohort Study.	2021	Critical care medicine	Paton M and Lane R and Paul E and Cuthbertson GA and Hodgson CL	33967203	Duplicate	Mobilisation				see -> 6
2187	Mobilization in the evening to prevent delirium: A pilot randomized trial.	2021	Nursing in critical care	Nydhil P and McWilliams D and Weiler N and Boriskowsky C and Howcroft F and Brobel A and Lindner M and von Haken R	33946128	Duplicate	Mobilisation				see -> 8
2188	Short-term effects of mobilization on oxygenation in patients after open surgery for pancreatic cancer: a randomized controlled trial.	2021	BMC surgery	Fagevik Ølyvinn M and Becovic S and Dean E	33827537	Duplicate	Mobilisation				see -> 25
2189	Early rehabilitation relieves diaphragm dysfunction induced by prolonged mechanical ventilation: a randomised control study.	2021	BMC pulmonary medicine	Dong Z and Liu Y and Gai Y and Meng P and Lin H and Zhuo Y and Xing J	33781259	Duplicate	Mobilisation				see -> 28
2190	[Early mobilization on mortality of patients with mechanical ventilation in intensive care unit after discharge: A Meta-analysis].	2021	Zhonghua wei zhong bing ji jiu yi xue	Yang L and Zhang Z and Zhang C and Meng W and Tian J and Ma X and Zhang Y and Yue W and Wei H and Shen X	33565410	Language					
2191	Effect of Early Rehabilitation on Physical Function in Patients Undergoing Coronary Artery Bypass Grafting: A Nationwide inpatient Database Study.	2021	Journal of clinical medicine	Ohbe H and Nakamura K and Uda K and Matsui H and Yasunaga H	33561986	Duplicate	Mobilisation				see -> 45
2192	Physical rehabilitation in intensive care unit in acute respiratory distress syndrome patients with COVID-19.	2021	European journal of physical and rehabilitation medicine	Oyemisci Taskiran O and Turati Z and Tekin Sand Senturk E and Topaloglu M and Yurdakul F and Ergonul O and Cakar N	33448757	Duplicate	Mobilisation				see -> 50
2193	Effects of the Level and Duration of Mobilization Therapy in the Surgical ICU on the Loss of the Ability to Live Independently: An International Prospective Cohort Study	2021	Critical care medicine	Scheffenbichler FT and Teja B and Wongtangman K and Maew N and Waak K and Schaller SJ and Xu X and Barbieri S and Fagoni N and Cassavagh J and Blohner M and Hodgson CL and Latronico N and Eikermann M	33416257	Duplicate	Mobilisation				see -> 54
2194	CardIO Cycle: a pilot feasibility study of in-bed cycling in critically ill patients post cardiac surgery.	2021	Pilot and feasibility studies	Newman ANL and Kho ME and Harris JE and Zahir N and McDonald E and Fox-Robichaud A and Solomon P	33407923	Duplicate	Tools				see -> 55
2195	Systematic early versus late mobilization or standard early mobilization in mechanically ventilated adult ICU patients: systematic review and meta-analysis.	2021	Critical care (London, England)	Menges D and Seiler B and Tomonago Y and Schwenkglens M and Puhani MA and Vebbo HG	33407707	Duplicate	Mobilisation				see -> 56
2196	Effects of aerobic cycling training on mobility and functionality of acute stroke subjects: A randomized clinical trial.	2021	NeuroRehabilitation	da Rosa Pinheiro DR and Cabreira MEP and da Campo LA and Corrêa PS and Blauth AHGG and Cecchetti F	33386826	Duplicate	Mobilisation				see -> 60
2197	Impact of Early and Regular Mobilization on Vital Signs and Oxygen Saturation in Patients Undergoing Open-Heart Surgery.	2020	Brazilian journal of cardiovascular surgery	KWbe S and Awajjar G	33355786	Duplicate	Mobilisation				see -> 63

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2198	The Association between Frailty and Short-Term Outcomes in an Intensive Care Unit Rehabilitation Trial: An Exploratory Analysis.	2021	The Journal of frailty & aging	Takako A and Heels-Andsett D and Cook DJ and Kho ME	33331622	Duplicate	Mobilisation				see -> 67
2199	Functional electrical stimulation in-bed cycle ergometry in mechanically ventilated patients: a multicentre randomised controlled trial.	2020	Thorax	Berney S and Hopkins RD and Rose JW and Koopman R and Puthucherry Z and Pavia A and Gordon I and Colantuoni E and Parry SM and Needham DM and Denehy L	33323480	Duplicate	Tools				see -> 69
2200	Family participation in physiotherapy-related tasks of critically ill patients: A mixed methods systematic review.	2021	Journal of critical care	van Delft LMM and Valkeniet K and Sooter AIC and Veenhof C	33260011		Mobilisation	1		5	
2201	Early Mobilization in Older Adults with Cardiovascular Disease	2021	Age and Ageing	Michael Goldfarb, Koorosh Semsar-Kazeroni, José A Morales, Diana Dima	33247593	Duplicate	Mobilisation				see -> 77
2202	Can an early mobilisation programme prevent hospital-acquired pressure injuries in an intensive care unit? A systematic review and meta-analysis.	2021	International wound Journal	Nieto-García L and Carpio-Pérez A and Moreira-Barroso MT and Alonso-Sardón M	33236855	Duplicate	Mobilisation				see -> 80
2203	Outcomes After Intensive Rehabilitation for Mechanically Ventilated Patients: A Nationwide Retrospective Cohort Study	2021	Archives of Physical Medicine and Rehabilitation	Yagi	33213824	Duplicate	Mobilisation				see -> 83
2204	Different physiotherapy protocols after coronary artery bypass graft surgery: A randomized controlled trial.	2021	Physiotherapy research international : the journal for researchers and clinicians in physical therapy	Ribeiro BC and Povša JGD and Rocha AMC and Cunha CNS and Cunha KDC and Falveto LFM and Torres DDC and Rocha LSO and Rocha RSB	33103326	Duplicate	Mobilisation				see -> 91
2205	Early rehabilitation during extracorporeal membrane oxygenation has minimal impact on physiological parameters: A pilot randomised controlled trial.	2021	Australian critical care : official journal of the Confederation of Australian Critical Care Nurses	Hayes K and Holland AE and Pellegrino VA and Young M and Paul E and Hodgson CL	33039302	Duplicate	Mobilisation				see -> 95
2206	Safety Assessment Criteria for Early Active Mobilization in Mechanically Ventilated ICU Subjects.	2021	Respiratory care	Yang R and Zheng Q and Zuo D and Zhang C and Gan Y	32900917	Duplicate	Mobilisation				see -> 111
2207	Early Mobilization in People With Acute Cardiovascular Disease.	2021	The Canadian journal of cardiology	Semsar-Kazeroni K and Dima D and Valiquette J and Berube-Dufour J and Goldfarb M	32739452	Duplicate	Mobilisation				see -> 127
2208	Effects of neuromuscular electrical stimulation in critically ill patients: A systematic review and meta-analysis of randomised controlled trials.	2020	Australian critical care : official journal of the Confederation of Australian Critical Care Nurses	Zayed Y and Kheiri B and Barbarawi M and Chahine A and Rashed L and Chintalapati S and Bachawa G and Al-Sanouri I	33160215	Duplicate	NMES				see -> 212
2209	Effects of Rehabilitation Interventions on Clinical Outcomes in Critically Ill Patients: Systematic Review and Meta-Analysis of Randomized Controlled Trials.	2020	Critical care medicine	Waldau P and Jiroutkova K and Kraljčovic A and Puthucherry Z and Durka F	32345834	Duplicate	Mobilisation				see -> 151
2210	Physical rehabilitation for critical illness myopathy and neuropathy: an abridged version of Cochrane Systematic Review.	2015	European journal of physical and rehabilitation medicine	Mehrhölz J and Pohl M and Kupfer J and Burridge J and Mücke S and Eisner B	26158919	Duplicate	Mobilisation				see -> 432
2211	Treatment of critical illness polyneuropathy and/or myopathy – a systematic review	2012	Danish Medical Journal 2012 Oct	Ydemann		not PICO					
2212	Neuromuscular electrical stimulation combined with exercise decreases duration of mechanical ventilation in ICU patients: A randomized controlled trial.	2020	Physiotherapy theory and practice	Dos Santos PV and Cipriano G Jr and Vieira L and Gvntzel Chiappa AM and Cipriano GB and Vieira P and Zago JG and Castilhos M and da Silva ML and Chiappa GR	30321084	Duplicate	NMES				see -> 251
2213	Effects of Neuromuscular Electrical Stimulation of the Quadriceps and Diaphragm in Critically Ill Patients: A Pilot Study.	2018	Critical care research and practice	Leite MA and Osaku EF and Albert J and Costa CRLM and Garcia AM and Czapiewski FDN and Ogasawara SM and Bertolini GRF and Jorge AC and Duarte PAD	30123586	Duplicate	NMES				see -> 264
2214	Early orthostatic exercise by head-up tilt with stepping versus standard care after severe traumatic brain injury is feasible	2021	Frontiers in Neurology 2021 Apr 14	Riberholt		not PICO					
2215	Effects of intensive upright mobilisation on outcomes of mechanically ventilated patients in the intensive care unit: a randomised controlled trial with 12-months follow-up	2021	European Journal of Physiotherapy 2021	Amundadóttir OR, Jónadóttir R, Sigvaldson K, Gunnsteinsdóttir E, Haraldsdóttir B, Sveinsson	DOI 10.1080/2167916 9.2019.1645880	Mobilisation	2	Low	2		
2216	Functional electrical stimulation-assisted cycle ergometry-based progressive mobility programme for mechanically ventilated patients: randomised controlled trial with 6 months follow-up.	2021	Thorax	Waldau P and Hručková N and Blahutová B and Gopla J and Urban T and Kraljčovic A and Fric M and Jiroutkova K and -basovv K and Durka F	33931570	Duplicate	NMES				see -> 11
2217	Can functional electrical stimulation-assisted cycle ergometry replace insulin infusion in patients? A nested substudy in a randomized controlled trial with 6 months' follow-up [with consumer summary]	2022	Journal of Parenteral and Enteral Nutrition 2022 Jan	Waldau P		not PICO					
2218	Quality of Care Indicators for Hospital Physical Therapy Units: A Systematic Review.	2022	Physical therapy	Angel-garcia		not PICO					
2219	Survey of the current situation of the electrostimulation therapy in the Intensive Care Units in Spain.	2022	Medicina intensiva			Language					
2220	Implementation of the ABCDEF Bundle for Critically Ill ICU Patients During the COVID-19 Pandemic: A Multi-National 1-Day Point Prevalence Study.	2021	Frontiers in medicine	Liu		not PICO					
2221	Aerobic exercise capacity in long-term survivors of critical illness: secondary analysis of the post-EPaNIC follow-up study.	2021	Intensive care medicine	Van-erde		not PICO					
2222	Improved Recovery Protocols in Cardiac Surgery: A Systematic Review and Meta-Analysis of Observational and Quasi-Experimental Studies.	2021	MEDICC review	Agüero-Martínez		not PICO					
2223	Physical activity of patients with critical illness undergoing rehabilitation in intensive care and on the acute ward: An observational cohort study.	2021	Australian critical care : official journal of the Confederation of Australian Critical Care Nurses			not PICO					
2224	Early Rehabilitation Feasibility in a COVID-19 ICU.	2021	Chest	Stutz		Article type					
2225	Activity Levels in Survivors of the Intensive Care Unit.	2021	Physical therapy	Gandotra	34097055	not PICO		3			
2226	[Risk factors and diagnostic methods of intensive care unit-acquired weakness].	2021	Zhonghua wei zhong bing ji jiu yi xue			Language					
2227	Early activity in mechanically ventilated patients - a meta-analysis.	2021	Tidsskrift for den Norske lægeforening : tidsskrift for praktisk medicin, ny række	Klem	34047169	Duplicate	Mobilisation				see -> 1
2228	Variables associated with mobility levels in critically ill patients: A cohort study.	2021	Nursing in critical care	Raurelltorrada	34008238	Duplicate	Mobilisation				see -> 4
2229	A reappraisal of the strength-duration test to assess neuromuscular impairment of critically ill patients.	2021	Journal of electromyography and kinesiology : official journal of the International Society of Electrophysiological Kinesiology	Fagoni	34000696	not PICO					
2230	A systematic review and meta-analysis of the effects of early mobilization therapy in patients after cardiac surgery.	2021	Medicine	Chen B and Xie G and Lin Y and Chen L and Lin Z and You X and Xie X and Dong D and Zheng X and Li D and Lin W	33847630	Duplicate	Mobilisation				see -> 21
2231	ABCDEF Bundle and Supportive ICU Practices for Patients With Coronavirus Disease 2019 Infection: An International Point Prevalence Study.	2021	Critical care explorations	Liu	33786432	not PICO					
2232	Feasibility of establishing a rehabilitation programme in a Vietnamese intensive care unit.	2021	PloS one	Anh	33657158	not PICO					
2233	Factors associated with electrical stimulation-induced performance fatigability are dependent upon stimulation location.	2021	Experimental physiology	Inns	33638246	not PICO					
2234	Safety First: An Ambulatory Protocol for Patients With Pulmonary Artery Catheters.	2021	Critical care nurse		33560423	not PICO					
2235	Acute Functional Outcomes in Critically Ill COVID-19 Patients.	2020	Frontiers in medicine	Tay	33537333	not PICO					
2236	Implementation of ABCDEF care bundle in intensive care units: A cross-sectional survey.	2021	Nursing in critical care	Liang	33522036	not PICO					
2237	Effect of Neuromuscular Electrical Stimulation on the Duration of Mechanical Ventilation.	2021	Respiratory care	Gutiérrez-Arias RE and Zapata-Quiroz CC and Prenafeta-Pedemonte BO and Nasar-Lillo NA and Gallardo-Zamorano DI	33402382	Duplicate	NMES				see -> 58
2238	Early mobilization in clinical practice: the reliability and feasibility of the 'Start To Move' Protocol.	2022	Physiotherapy theory and practice	Hoffmann	32866055	Duplicate					cross reference -> 115
2239	The Effect of High Protein and Mobility-Based Rehabilitation on Clinical Outcomes in Survivors of Critical Illness.	2021	Respiratory care	Wappel	32817444		Mobilisation	4		5	
2240	Outcome of improved care bundle in acute respiratory failure patients.	2020	Nursing in critical care	Chen CM and Cheng AC and Chou W and Selvam P and Cheng CM	32767475	Duplicate	Mobilisation				see -> 122
2241	Exercise training for adult lung transplant recipients	2021	Cochrane Database of Systematic Reviews	Gutierrez-Arias, R		not PICO					
2242	The effect of time spent in rehabilitation on activity limitation and impairment after stroke	2021	Cochrane Database of Systematic Reviews	Clark, B		not PICO					
2243	Effects of Rehabilitation Interventions on Clinical Outcomes in Critically Ill Patients: Systematic Review and Meta-Analysis of Randomized Controlled Trials.	2020	Critical care medicine	Waldau P and Jiroutkova K and Kraljčovic A and Puthucherry Z and Durka F	32345834	Duplicate					see -> 151
2244	Non-pharmacological interventions for preventing delirium in hospitalised non-ICU patients (Cochrane review) [with consumer summary]	2021	Cochrane Database of Systematic Reviews 2021	Burton	34826144	not PICO					
3000	Prone position in subarachnoid hemorrhage patients with acute respiratory distress syndrome: effects on cerebral tissue oxygenation and intracranial pressure	2003	Neurologic Critical Care	Reinprecht	12794427		Prone position	4		4	
3001	Prone position as prevention of lung injury in comatose patients: a prospective, randomized, controlled study	2002	Intensive Care Med	Beuret	12029403		Prone position	2	Low	2	
3002	[Comparison of incomplete (135 degrees) and complete prone position (180 degrees) in patients with acute respiratory distress syndrome. Results of a prospective, randomised trial]	2004	Anaesthetist	Bein	15372177		Prone position	2	Low	2	
3003	The effects of prone positioning on intraabdominal pressure and cardiovascular and renal function in patients with acute lung injury	2001	Anesth Analg	Hering	11323351		Prone position	3		3	
3004	Intra-abdominal hypertension and the abdominal compartment syndrome: updated consensus definitions and clinical practice guidelines from the World Society of the Abdominal Compartment Syndrome	2013	Intensive Care Med	Kirkpatrick	23673399		Positioning	1	5	1	

Nummer	Titel	Jahr	Journal	Autoren	Pubmed-ID	Ausschlussgrund	Kapitel	LoE initial	Bias	LoE final	Duplikatverweise
3005	The impact of body position on intra-abdominal pressure measurement: A multicenter analysis	2009	Crit Care Med	Cheatham	19487946		Positioning	3		3	
3006	Awake prone positioning for COVID-19 acute hypoxemic respiratory failure: a randomised, controlled, multinational, open-label meta-trial.	2021	Lancet Respir Med	Ehrmann	34425070		Prone position	2	Some concerns	2	
3007	Awake-prone positioning strategy for nonintubated hypoxic patients with COVID-19: a pilot trial with embedded implementation evaluation.	2021	AnnalsATS	Taylor	33366977		Prone position	2	Some concerns	3	
3008	Patient-directed prone positioning in awake patients with COVID-19 requiring hospitalization (PAPR)	2021	AnnalsATS	Johnson	33586394	Article type	Prone position				
3009	Self-proning in COVID-19 patients on low-flow oxygen therapy: a cluster randomised controlled trial	2021	ERJ	Kharat	33718487	not PICO	Prone position				
3010	Standard care versus awake prone position in adult nonintubated patients with acute hypoxemic respiratory failure secondary to COVID-19 infection—a multicenter feasibility randomised controlled trial	2021	Journal of Intensive Care Medicine	Jayakumar	33949237	not PICO	Prone position				
3011	Awake prone positioning versus non-invasive ventilation for COVID-19 patients with acute hypoxemic respiratory failure	2021	Egyptian Journal of Anesthesia	Gad	N/A		Prone position	2	Low	3	
3012	(empty)					(empty)					
3013	Rationale and design of the awake prone position for early hypoxemia in COVID-19 (APPEX-19) study protocol	2021	AnnalsATS	Garcia	33647225	Article type					
3014	An Adaptive Randomized Controlled Trial of Non-Invasive Respiratory Strategies in Acute Respiratory Failure Patients with COVID-19	2021		Perkins			not PICO				
3015	Physiological Comparison of High-Flow Nasal Cannula and Helmet Noninvasive Ventilation in Acute Hypoxemic Respiratory Failure	2020	Am J Respir Crit Care Med	Grieco		not PICO					
3016	Comparison of High-Flow Nasal Cannula and Noninvasive Ventilation in Acute Hypoxemic Respiratory Failure Due to Severe COVID-19 Pneumonia	2021	Respir Care	Nair		not PICO					
3017	Pulmonary aspiration of gastric contents in patients receiving mechanical ventilation: the effect of body position	1992	ANNALS of Internal Medicine	Torres		not PICO					
3018	Ventilator-associated pneumonia. A multivariate analysis	1993	JAMA	Koller		not PICO					
3019	Supine body position as a risk factor for nosocomial pneumonia in mechanically ventilated patients: a randomised trial	1999	Lancet	Drakulovic			Positioning	2	Some concerns	2	
3020	Effects of Aerobic Exercise Applied Early After Coronary Artery Bypass Grafting on Pulmonary Function, Respiratory Muscle Strength, and Functional Capacity: A Randomized Controlled Trial	2016	Journal of Physical Activity and Health	Borges			Mobilisation	2	Low	2	
3021	The use of the virtual reality as intervention tool in the postoperative of cardiac surgery	2013	Rev Bras Cir Cardiovasc	Cacau		not PICO	Mobilisation				
3022	Pre- and postoperative cardiopulmonary rehabilitation in hospitalized patients undergoing coronary artery bypass surgery: a randomized controlled trial.	2008	American Journal of Physical Medicine & Rehabilitation	Herdy		not PICO	Mobilisation				
3023	Supervised moderate intensity exercise improves distance walked at hospital discharge following coronary artery bypass graft surgery—a randomised controlled trial	2008	Heart, Lung and Circulation	Hirschhorn		not PICO					
3024	Early physical and psycho-educational rehabilitation in patients with coronary artery bypass grafting: A randomized controlled trial	2019	J Rehabil Med	Hajkovic		not PICO					
3025	Short-term supervised inpatient physiotherapy exercise protocol improves cardiac autonomic function after coronary artery bypass graft surgery—a randomised controlled trial	2010	Disability and Rehabilitation	Mendes		not PICO					
3026	Continuous Positive Airway Pressure During Exercise Improves Walking Time in Patients Undergoing Inpatient Cardiac Rehabilitation After Coronary Artery Bypass Graft Surgery: A RANDOMIZED CONTROLLED TRIAL	2016	Journal of Cardiopulmonary Rehabilitation and Prevention	Pantoni		not PICO					
3027	Inspiratory muscle strength as a determinant of functional capacity early after coronary artery bypass graft surgery	2009	Arch Phys Med Rehabil	Stein		not PICO					
3028	Effect of Early <3 Mets (Metabolic Equivalent of Tasks) of Physical Activity on Patient's Outcome after Cardiac Surgery	2017	Journal of the College of Physicians and Surgeons Pakistan	Tariq		not PICO					
3029	Effects of Resistance Exercise Applied Early After Coronary Artery Bypass Grafting: A Randomized Controlled Trial	2015	Braz J Cardiovasc Surg	Ximenes		not PICO					
3030	Effects of Different Rehabilitation Protocols in Inpatient Cardiac Rehabilitation After Coronary Artery Bypass Graft Surgery: A RANDOMIZED CLINICAL TRIAL	2019	JCRP	Zanini		not PICO					
3031	Effect of passive stretching on the wasting of muscle in the critically ill	1995	Nutrition	Griffiths		not PICO					
3032	Prolonged prone positioning under VV-ECMO is safe and improves oxygenation and respiratory compliance	2015	Ann. Intensive Care	Kimmon		Duplicate	Prone position	4		4	cross reference --> 413
3033	Prone positioning monitored by electrical impedance tomography in patients with severe acute respiratory distress syndrome on veno-venous ECMO	2020	Ann. Intensive Care	Franchineau	32016593	not PICO					
3034	Prone positioning under VV-ECMO in SARS-CoV-2-induced acute respiratory distress syndrome	2020	Critical Care	Garcia		Article type					
3035	Prone Positioning during Venovenous Extracorporeal Membrane Oxygenation in Acute Respiratory Distress Syndrome: A Multicenter Cohort Study and Propensity-matched Analysis	2021	Ann Am Thorac Soc	Giani	32941739		Prone position	4		4	
3036	Prone positioning and extracorporeal membrane oxygenation for severe acute respiratory distress syndrome: time for a randomized trial?	2019	Intensive Care Med	Guervilly		Article type					
3037	Prone position during ECMO is safe and improves oxygenation	2013	Int J Artif Organs	Kipping		Duplicate					cross reference --> 1089
3038	(empty)					(empty)					
3039	Prone positioning in severe ARDS requiring extracorporeal membrane oxygenation	2020	Critical Care	Rilinger			Prone position	4		4	
3040	Extracorporeal Membrane Oxygenation for SARS-CoV-2 Acute Respiratory Distress Syndrome: A Retrospective Study From Hubei, China	2021	Frontiers in Medicine	Yang		not PICO					
3041	Prone Positioning in Nonventilated Coronavirus Disease 2019 Patients: A retrospective analysis	2020	Critical Care Explorations	Jagan			Prone position	4		4	
3042	Biliary Leakage After Hepatobiliary and Pancreatic Surgery: A Classification System to Guide the Proper Percutaneous Treatment	2019	Cardiovasc Intervent Radiol	Manuset		not PICO					
3043	Awake prone positioning and oxygen therapy in patients with COVID-19: the APRONOX study	2022	Eur Respir J	Perez-Nieto			Prone position	4		4	
3044	Effect of prone positioning on the respiratory support of non-intubated patients with coronavirus disease 2019 and acute hypoxemic respiratory failure: a retrospective matching cohort study	2021	Chest Journal	Prudhomme		Article type					
3045	Efficacy of early prone position for COVID-19 patients with severe hypoxia: a single-center prospective cohort study	2020	Intensive Care Med	Zang		Article type					
3046	Postoperative physical therapy after coronary artery bypass surgery	1995	AM J RESPIR CRIT CARE MED	Johnson		not PICO					
3047	The effect of physical therapy on respiratory complications following cardiac valve surgery	1996	Chest Journal	Johnson		not PICO					
3048	Physiotherapy following cardiac surgery: is it necessary during the intubation period?	2001	Aust J Physiother	Patman	11552858		Mobilisation	2	Low	2	
3049	Does removal of deep breathing exercises from a physiotherapy program including pre-operative education and early mobilisation alter cardiac surgery after patient outcomes?	2003	Australian Journal of Physiotherapy	Brasher		not PICO					
3050	Exercise therapy after coronary artery bypass graft surgery: a randomized comparison of a high and low frequency exercise therapy program	2004	Ann Thorac Surg	van der Peijl			Mobilisation	2	Low	3	
3051	Does the mode of exercise influence recovery of functional capacity in the early postoperative period after coronary artery bypass graft surgery? A randomized controlled trial	2012	Interactive CardioVascular and Thoracic Surgery	Hirschhorn		not PICO					
3052	(empty)					(empty)					
3053	Electrical muscle stimulation prevents critical illness polyneuropathy: a randomized parallel intervention trial	2010	Critical Care	Routsi	20426834		NMES	2	Low	2	
3054	Acute microcirculatory effects of medium frequency versus high frequency neuromuscular electrical stimulation in critically ill patients - a pilot study	2013	Ann Intensive Care	Angelopoulos	24355422	not PICO					
3055	(empty)					(empty)					
3056	Inspiratory muscle training is ineffective in mechanically ventilated critically ill patients	2005	Clinics	Caruso	16358138	not PICO					
3057	Effects of Physical Training on Functional Status in Patients With Prolonged Mechanical Ventilation	2006	Phys Ther	Chiang	16959676	not PICO					
3058	The PRACTICAL study of nurse led, intensive care follow-up programmes for improving long term outcomes from critical illness: a pragmatic randomised controlled trial	2009	BMJ	Cuthbertson		not PICO					
3059	Health-related quality of life and physical recovery after a critical illness: a multi-center randomised controlled trial of a home-based physical rehabilitation program	2011	Crit Care	Elliott	21658221	not PICO					
3060	Electrical muscle stimulation preserves the muscle mass of critically ill patients: a randomized study	2009	Critical Care	Geravasil	19814793		NMES	2	Low	2	
3061	Cognitive and physical rehabilitation of intensive care unit survivors: results of the RETURN randomized controlled pilot investigation	2012	Crit Care Med	Jackson	22080631	not PICO					
3062	Rehabilitation after critical illness: a randomised, controlled trial	2003	Crit Care Med	Jones	14530751	not PICO					
3063	Supported Arm Training in Patients Recently Weaned From Mechanical Ventilation	2005	Chest	Roberto							
3064	(empty)					(empty)					
3065	Effect of early mobilization and rehabilitation on complications in aneurysmal subarachnoid hemorrhage	2017	J Neurosurg	Karic	27058204		Mobilisation	3		4	
3066	Impact of early mobilization and rehabilitation on global functional outcome one year after aneurysmal subarachnoid hemorrhage	2016	J Rehabil Med	Karic	27494170		Mobilisation	3		4	
3067	Caring for Critically Ill Patients with the ABCDEF Bundle: Results of the ICU Liberation Collaborative in Over 15,000 Adults	2019	Crit Care Med	Pun	30339549		Mobilisation	3		3	
3068	(empty)					(empty)					
3069	Kinetic therapy in multiple trauma patients with severe blunt chest trauma: an analysis at a level-1 trauma center	2015	Technol Health Care	Zeckey	25391530		Positioning	4			
3070	Effectiveness of Neuromuscular Electrical Stimulation on Auxiliary Respiratory Muscles in Patients with Chronic Obstructive Pulmonary Disease Treated in the Intensive Care Unit	2015	Turkish Journal of Physical Medicine and Rehabilitation	Dilek KOÇAN KURTOĞLU, Nurettin TAŞTEKİN, Murat BIRTANE, Erhan TABAKOĞLU, Necdet SÜT	N/A	not PICO					
3071	Effect of early awake prone positioning application on prognosis in patients with acute respiratory failure due to COVID-19 pneumonia: a retrospective observational study	2022	Brazilian Journal of Anesthesiology	Altınay		Duplicate	Positioning	4		4	cross reference --> 2043
3072	(empty)					(empty)					
3073	(empty)					(empty)					
3074	Standardized Rehabilitation and Hospital Length of Stay Among Patients With Acute Respiratory Failure: A Randomized Clinical Trial	2016	JAMA	Morris			Mobilisation	2	Some concerns	2	
3075	Inspiratory muscle training did not accelerate weaning from mechanical ventilation but did improve tidal volume and maximal respiratory pressures: a randomised trial	2013	Journal of Physiotherapy	Condessa		not PICO					
3076	Effect of prone position on respiratory parameters, intubation and death rate in COVID-19 patients: systematic review and meta-analysis	2021	Scientific reports	Behçet Aeen		not PICO					
3077	(empty)					(empty)					

Number	Titel	Jahr	Journal	Autoren	Pubmed-ID	Ausschlussgrund	Kapitel	LoE initial	Bias	LoE final	Duplikatverweise
3078	(empty)					(empty)					
3079	Impact of prone positioning on patients with COVID-19 and ARDS on invasive mechanical ventilation: a multicenter cohort study	2022	Journal brasileiro de pneumologia : publicacao oficial da Sociedade Brasileira de Pneumologia e Tisologia	Cunha MCA and Schardong J and Righi NC and Lunardi AC and Sant'Anna GN and Ikensee LP and Xavier RF and Brambatti KR and Pompeu JE and FrVncio F and Faria LM and Cardoso RA and Silva AMVO and Dornelles CC and Wiele RW and Ferreira JC and Plentz RDM and Carvalho CRF	35475866		Prone position	4		4	
3080	Effect of electrical muscle stimulation on prevention of ICU acquired muscle weakness and facilitating weaning from mechanical ventilation	2013	Alexandria Journal of Medicine	Abu-Khabeer			NMES	2	High	3	
3081	The Effect of Passive Cycle Ergometry Exercise on Dia-Phragmatic Motion of Invasive Mechanically Ventilated Critically Ill Patients in Intensive Care Unit: A Randomized Clinical Trial	2018	International Journal of Physical Medicine & Rehabilitation	Bianchi		not PICO	Tools				
3082	Impact of exposure time in awake prone positioning on clinical outcomes of patients with COVID-19-related acute respiratory failure treated with high-flow nasal oxygen: a multicenter cohort study	2022	Critical Care	Esperatti			Prone position	3		3	
3083	Prone positioning for non-intubated spontaneously breathing patients with acute hypoxaemic respiratory failure: a systematic review and meta-analysis	2022	British Journal of Anaesthesia	Fazzini			Prone position	1	Low	2	
3084	(empty)					(empty)					
3085	Factors for success of awake prone positioning in patients with COVID-19-induced acute hypoxemic respiratory failure: analysis of a randomized controlled trial	2022	Critical Care	Ibarra-Estrada				2	Low	2	
3086	(empty)					(empty)					
3087	(empty)					(empty)					
3088	Effects of functional training on strength, function level, and quality of life of persons in intensive care units	2019	Phys Ther Rehabil Sci	Seo			Tools	2	Some concerns	3	
3089	(empty)					(empty)					
3090	Effects of physical therapy with neuromuscular electrical stimulation in acute and late septic shock patients: A randomised crossover clinical trial	2021	Plos One	Lago			Mobilisation	2	Low	2	
3091	(empty)					(empty)					
3092	Early prolonged prone position in noninvasively ventilated patients with SARS-CoV-2-related moderate-to-severe hypoxemic respiratory failure: clinical outcomes and mechanisms for treatment response in the PRO-REV study	2022	Critical Care	Musso			Prone position	3		3	
3093	(empty)					(empty)					
3094	(empty)					(empty)					
3095	(empty)					(empty)					
3096	(empty)					(empty)					
3097	(empty)					(empty)					
3098	Influence of early mobilization on respiratory and peripheral muscle strength in critically ill patients	2012	Rev Bras Ter Intensiva	Dantas			Mobilisation	2	High	3	
3099	Effectiveness of Neuromuscular Electrical Stimulation on Auxiliary Respiratory Muscles in Patients with Chronic Obstructive Pulmonary Disease Treated in the Intensive Care Unit	2015	Turk J Phys Med Rehab	Kurtoglu			NMES	3		3	
3100	Electric Muscle Stimulation for Weaning from Mechanical Ventilation in Elder Patients with Severe Sepsis and Acute Respiratory Failure: A Pilot Study	2017	International Journal of Gerontology	Shen			NMES	2	Some concerns	3	
3101	Abdominal functional electrical stimulation to assist ventilator weaning in critical illness: a double-blinded, randomised, sham-controlled pilot study	2019	Critical Care	McCaughy			NMES	2	Low	2	
3102	Skeletal muscle effects of electrostimulation after COPD exacerbation: a pilot study	2011	Eur Respir J	Abdellaoui			NMES	2	Some concerns	2	
3103	Electrical muscle stimulation preserves the muscle mass of critically ill patients: a randomized study	2009	Chest	Geravasilis			NMES	2	Low	2	
3104	Electrical muscle stimulation: an effective form of exercise and early mobilization to preserve muscle strength in critically ill patients	2012	Crit Care Res Pract	Karatzanos	22545212		NMES	4			
3105	(empty)					(empty)					
3106	Effects of neuromuscular electrical stimulation on muscle layer thickness of knee extensor muscles in intensive care unit patients: a pilot study	2010	Rehabil Med	Gruthe			NMES	2	Some concerns	3	
3107	Peripheral muscle strength training in bed-bound patients with COPD receiving mechanical ventilation: effect of electrical stimulation	2003	Chest	Zanotti	12853536		NMES	2	High	3	
3108	Neuromuscular electrical stimulation as a possible means to prevent muscle tissue wasting in artificially ventilated and sedated patients in the intensive care unit: A pilot study	2010	Neuromodulation	Messen			NMES	2	Some concerns	3	
3109	Effect of transcutaneous electrical muscle stimulation on muscle volume in patients with septic shock	2013	Crit Care Med	Poulsen			NMES	2	Some concerns	3	
3110	Muscle weakness in septic patients requiring mechanical ventilation: protective effect of transcutaneous neuromuscular electrical stimulation	2012	Crit Care	Rodriguez			NMES	2	Some concerns	3	
3111	The effect of electrical muscle stimulation on the prevention of disuse muscle atrophy in patients with consciousness disturbance in the intensive care unit	2013	Crit Care	Hirose			NMES	3		4	
3112	Prevalence and risk factors for delirium in critically ill patients with COVID-19 (COVID-D): a multicentre cohort study	2021	Lancet	Pun		not PICO					
3113	Physical activity and movement: A guideline for critically ill adults	2017	AGENCY FOR CLINICAL INNOVATION	Berry			Mobilisation	1	7	1	
3114	Early Mobilization of Patients Receiving Vasoactive Drugs in Critical Care Units: A Systematic Review	2021	Journal of Acute Care Physical Therapy	Jacob			Mobilisation	1		3	
3115	(empty)					(empty)					
3116	High protein versus medium protein delivery under equal total energy delivery in critical care: A randomized controlled trial	2020	Clinical Nutrition	Nakamura			Mobilisation	2	Some concerns	2	
3117	(empty)					(empty)					
3118	Early Mobilization during ECMO for Cardiopulmonary Failure in Adults: Factors Associated with Intensity of Treatment	2021	Annals	Abrams	34077700	Duplicate	Mobilisation	4		4	cross reference -> 2182
3119	(empty)					(empty)					
3120	Rehabilitation after critical illness in adults	2009	NICE	NICE			Mobilisation	1	7	1	
3121	Early mobilisation during extracorporeal membrane oxygenation was safe and feasible: a pilot randomised controlled trial	2020	Intensive Care Med	Hodgson		Early Active Mobilization	Mobilisation	2	Low	3	
3122	Clinical Practice Guidelines for Sustained Neuromuscular Blockade in the Adult Critically Ill Patient	2016	Critical Care Medicine	Murray			Mobilisation	1	7	1	
3123	Improving Hospital Survival and Reducing Brain Dysfunction at Seven California Community Hospitals: Implementing PAD Guidelines Via the ABCDEF Bundle in 6,064 Patients*	2014	Critical Care Medicine	Barnes-Daly	PMID: 27861180		Mobilisation	3		3	
4000	Comparison of early mobilization protocols on postoperative cognitive dysfunction, pain, and length of hospital stay in patients undergoing coronary artery bypass graft surgery: A randomized controlled trial	2023	Appl Nurs Res	Alahabakhshian	37722799		Mobilisation	2	Low	2	
4001	Awake Prone Decubitus Positioning in COVID-19 Patients: A Systematic Review and Meta-Analysis	2023	Critical Care Medicine	Garcia	37593248		Prone position	1	Low	1	
4002	Investigating the impact of physical activity interventions on delirium outcomes in intensive care unit patients: A systematic review and meta-analysis	2023	J Intensive Care Soc	Jarman	36874288		Mobilisation	1	Low	2	
4003	Effects of Mobilization within 72 h of ICU Admission in Critically Ill Patients: An Updated Systematic Review and Meta-Analysis of Randomized Controlled Trials	2023	J Clin Med	Matsuoka	37762829		Mobilisation	1	Low	1	
4004	Efficacy of Early Enhanced Occupational Therapy in an Intensive Care Unit (EFFORT-ICU): A Single-Site Feasibility Trial	2023	Am J Occup Ther	Rapothy-Beck	38015492		Mobilisation	2	Some concerns	2	
4005	The Early Mobilization of Patients on Extracorporeal Membrane Oxygenation: A Systematic Review	2023	Nurs Rep	Chatziefstratiou	37218947		Mobilisation	1	High	3	
4006	Combining exercise, protein supplementation and electric stimulation to mitigate muscle wasting and improve outcomes for survivors of critical illness: The ExPES study	2023	Heart Lung	Vercelles	36473808		NMES	2	Some concerns	3	
4007	Effect of early mobilisation on long-term cognitive impairment in critical illness in the USA: a randomised controlled trial	2023	Lancet Respir Med	Patel	36693400		Mobilisation	2	Low	2	
4008	AUTOMATIC ROTATIONAL THERAPY IN MECHANICALLY VENTILATED INDIVIDUALS AND LONG STAY IN AN INTENSIVE CARE UNIT: SYSTEMATIC REVIEW AND META-ANALYSIS	2023	Brazilian Journal of Physical Therapy	Brito		Article type	Positioning	1			
4009	Safety and effectiveness of neuromuscular electrical stimulation in cardiac surgery: A systematic review	2024	World J Cardiol	Kourek	38313389		NMES	1	Low	2	
4010	Effect of neuromuscular electrical stimulation in critically ill adults with mechanical ventilation: a systematic review and network meta-analysis	2024	BMC Pulm Med	Xu	38273243		NMES	1	Low	1	
4011	Role of head-of-bed elevation in preventing ventilator-associated pneumonia bed elevation and pneumonia	2022	Nurs Crit Care	Guner	33884691	Duplicate	Positioning	2	Some concerns	2	cross reference -> 18
4012	Early Active Mobilization during Mechanical Ventilation in the ICU	2022	N Engl J Med	Hodgson	36286256		Mobilisation	2	Low	2	
4013	Prevalence of adverse events in pronated intubated adult COVID-19 patients: A systematic review with meta-analysis	2024	J Clin Nurs	Gabiatti	37149845		Prone position	1	Low	3	

Number	Titel	Jahr	Journal	Autoren	Pubmed-ID	Ausschlussgrund	Kapitel	LoE initial	Bias	LoE final	Duplikatverweise
4014	Impact of vertical positioning on lung aeration among mechanically ventilated intensive care unit patients: a randomized crossover clinical trial	2023	Crit Care Sci	Neves	38265318		Positioning	2	High	3	
4015	Early Neuromuscular Electrical Stimulation in Addition to Early Mobilization Improves Functional Status and Decreases Hospitalization Days of Critically Ill Patients	2022	Crit Care Med	Campos	35412472	Duplicate	NMES	2	Some concerns	2	cross reference-->2131
4016	Effectiveness of prone position in acute respiratory distress syndrome and moderating factors of obesity class and treatment durations for COVID-19 patients: A meta-analysis	2022	Intensive Crit Care Nurs	Ashra	35672215	not PICO	Prone position	1			
4017	Effectiveness of physical exercise and neuromuscular electrical stimulation interventions for preventing and treating intensive care unit-acquired weakness: A systematic review of randomized controlled trials	2023	Intensive Crit Care Nurs	García-Pérez-de-Sevilla	36283894		Mobilisation	1	Low	1	
4018	Neuromuscular Electrical Stimulation as a Protective Treatment against Intensive Care Unit Muscle Wasting in Sepsis/Septic Shock Patients	2022	J Coll Physicians Surg Pak	Cebeci	36205275		NMES	2	High	3	
4019	Short-Term Outcomes of Neuromuscular Electrical Stimulation in Critically Ill Patients	2023	Crit Care Nurs Clin	Mahrán	36821738		NMES	2	High	3	
4020	Awake Prone Positioning in Patients on Non-Invasive Ventilation for Management of SARS-CoV-2 Pneumonia: A Systematic Review	2022	Adv Respir Med	Chikoti	36004966		Prone position	1	Low	3	
4021	Effect of Awake Prone Positioning in Non-Intubated COVID-19 Patients with Acute Hypoxemic Respiratory Failure: A Systematic Review and Meta-Analysis	2022	J Intensive Care Med	Kang	36017576		Prone position	1	Low	2	
4022	Awake prone positioning for patients with COVID-19 pneumonia in intensive care unit: A systematic review and meta-analysis	2022	Front Med (Lausanne)	Huang	36160173		Prone position	1	High	2	
4023	The effect of protein provision and exercise therapy on patient-reported and clinical outcomes in intensive care unit survivors: A systematic review	2023	J Hum Nutr Diet	Barth	37211649		Mobilisation	1	Low	1	
4024	Effects of nonpharmacological interventions on sleep improvement and delirium prevention in critically ill patients: A systematic review and meta-analysis	2023	Aust Crit Care	Kang	35718628		Mobilisation	1	Low	2	
4025	Awake prone positioning for non-intubated patients with COVID-19-related acute hypoxaemic respiratory failure: a systematic review and meta-analysis	2022	Lancet Respir Med	Li	35305308	Duplicate	Prone position	1	Low	2	cross reference-->2011
4026	A systematic review of the effect of early mobilisation on length of stay for adults in the intensive care unit	2023	Nurs Crit Care	Monsees	35649531		Mobilisation	1	Low	1	
4027	Efficacy of awake prone positioning in patients with covid-19 related hypoxemic respiratory failure: systematic review and meta-analysis of randomized trials	2022	BMJ	Weatherald	36740866		Prone position	1	Low	1	
4028	Responsiveness of Critically Ill Adults With Multimorbidity to Rehabilitation Interventions: A Patient-Level Meta-Analysis Using Individual Pooled Data From Four Randomized Trials	2023	Crit Care Med	Jones	37246922		Mobilisation	1	Low	1	
4029	The effect of the ABCDE/ABCDE bundle on delirium, functional outcomes, and quality of life in critically ill patients: A systematic review and meta-analysis	2023	Int J Nurs Stud	Sosnowski	36577261		Mobilisation	1	Low	2	
4030	Optimal timing for early mobilization initiatives in intensive care unit patients: A systematic review and network meta-analysis	2024	Intensive Crit Care Nurs	Yu	38158250		Mobilisation	1	Low	1	
4031	Development of a clinical practice guideline for physiotherapy management of adults invasively ventilated with community-acquired pneumonia	2024	Physiotherapy	Van der Lee	38244417		Mobilisation	1		1	
4032	The effects of early mobilization in mechanically ventilated adult ICU patients: systematic review and meta-analysis	2023	Front Med (Lausanne)	Wang	37448799		Mobilisation	1	Low	1	
4033	Awake extracorporeal life support and physiotherapy in adult patients: A systematic review of the literature	2023	Perfusion	Cucchi	35760523		Mobilisation	1	Low	3	
4034	Prone Vs. Supine Position Ventilation in Intubated COVID-19 Patients: A Systematic Review and Meta-Analysis	2023	Cureus	Fayed	37388580		Prone position	1	High	2	
4035	Awake prone positioning for patients with COVID-19-related respiratory failure: a systematic review and meta-analysis	2024	Intern Emerg Med	Grazián	37796372		Prone position	1	Low	2	
4036	Effectiveness of early awake self-proning strategy in non-intubated patients with COVID-19 hypoxemia: an open-labelled randomized clinical trial from Lodhpur, India	2022	Monaldi Arch Chest Dis	Gopalakrishnan	36524853	not PICO	Prone position	2			
4037	Association of active mobilisation variables with adverse events and mortality in patients requiring mechanical ventilation in the intensive care unit: a systematic review and meta-analysis	2024	Lancet Respir Med	Paton	38513675		Mobilisation	1	Low	1	
4038	Awake proning in patients with COVID-19-related hypoxemic acute respiratory failure: Endorsement by the Scandinavian Society of Anaesthesiology and Intensive Care Medicine	2024	Acta Anaesthesiol Scand	Rehn	38131369	not PICO	Prone position	1			
4039	Effect of a structured early mobilization protocol on the level of mobilization and muscle strength in critical care patients: a randomized clinical trial	2023	Physiotherapy theory and practice	de Paula			Mobilisation	2	Low	2	
4040	EFFECTS OF EARLY PROGRESSIVE MOBILISATION PROGRAMMES IN CRITICALLY ILL PATIENTS: A SYSTEMATIC REVIEW OF THE LITERATURE	2023	Revista Portuguesa de Enfermagem de Reabilitação	Mendes			Mobilisation	1	Low	2	
4041	Early mobilisation within 72 hours after admission of critically ill patients in the intensive care unit: A systematic review with network meta-analysis	2024	Intensive Crit Care Nurs	Daum	37948898		Mobilisation	1	Low	1	
4042	Long-term complications of prone position ventilation with relevance for acute and postacute rehabilitation: a systematic review of the literature	2023	Eur J Phys Rehabil Med	Elmer	36441010		Prone position	1	High	3	
4043	Effect of Neuromuscular Electrical Stimulation in Patients With Critical Illness: An Updated Systematic Review and Meta-Analysis of Randomized Controlled Trials	2023	Crit Care Med	Nakanishi	37232695		NMES	1	Low	1	
4044	Kann Frühmobilisierung ein Delir vermeiden? Eine Meta-Analyse	2022	DMV	Kapp			Mobilisation	1	High	3	
4045	Mobilization in the evening to prevent delirium: A pilot randomized trial	2022	Nurs Crit Care	Niydahi	33946128	Duplicate	Mobilisation	2	Some concerns	3	cross reference-->8
4046	Early mobilisation for prevention and treatment of delirium in critically ill patients: Systematic review and meta-analysis	2023	Intensive Crit Care Nurs	Niydahi	37440187		Mobilisation	1	Low	2	
4047	The Effect of Mobilization at 6 Months after Critical Illness - Meta-Analysis	2023	NEJM Evidence	Paton			Mobilisation	1	Low	1	
4048	The effect of early mobilisation for critically ill adults on long-term outcomes: Systematic review and meta-analysis	2022	Australian Critical Care	Paton		Article type	Mobilisation	1			
4049	The effect of prone positioning on pressure injury incidence in adult intensive care unit patients: A meta-review of systematic reviews	2022	Australian Critical Care	Patton			Prone position	1	Low	1	
4050	Effects of awake prone position vs. usual care on acute hypoxemic respiratory failure in patients with COVID-19: A systematic review and meta-analysis of randomized controlled trials	2023	Front Med (Lausanne)	Peng	37081841		Prone position	1	Low	1	
4051	Effectiveness of neuromuscular electrostimulation in COPD subjects on mechanical ventilation: A systematic review and meta-analysis	2022	Clinics (Sao Paulo)	Gutierrez-Arias	36166993		NMES	1	Low	1	
4052	Steps to recovery: Body weight-supported treadmill training for critically ill patients: A randomized controlled trial	2022	J Crit Care	Kwakman	35124345	Duplicate	Tools	2	Some concerns	2	Duplicate; see 549; 2144; 3087
4053	Effects of different types and frequencies of early rehabilitation on ventilator weaning among patients in intensive care units: A systematic review and meta-analysis	2023	PLoS One	Wu	37093879		Mobilisation	1	Low	1	
4054	Clinical and cost effectiveness of a system for turning and positioning intensive care unit patients, when compared to usual care turning and positioning devices, for the prevention of hospital-acquired pressure injuries: A randomised controlled trial	2023	Int Wound J	Kapp	37295778		Positioning	2	High	3	
4055	Awake prone position in COVID-19-related acute respiratory failure: a meta-analysis of randomized controlled trials	2023	BMC Pulm Med	Qin	37101160		Prone position	1	Low	1	
4056	ARDS clinical practice guideline 2021	2022	Respir Investig	Tasaka	35753956		Mobilisation	1	6	1	
4057	Lagerungstherapie und mobilisation von kritisch erkrankten auf Intensivstationen (Positioning therapy and mobilization of critically ill patients in intensive care units)	2023	AWMF	Schaller		Article type	Mobilisation	1			
4058	Prone positioning effect on tracheal intubation rate, mortality and oxygenation parameters in awake non-intubated severe COVID-19-induced respiratory failure: a review of reviews	2024	Eur J Med Res	Tekantapeh	38245784		Prone position	1	Low	1	
4059	Effects of awake-prone positioning on oxygenation and physiological outcomes in non-intubated patients with COVID-19: A randomized controlled trial	2023	Nurs Crit Care	Othman	35909384		Prone position	2	Some concerns	2	
4060	Effect of neuromuscular electrical stimulation and early physical activity on ICU-acquired weakness in mechanically ventilated patients: a randomized controlled trial	2023	Nursing in Critical Care	Othman			NMES	2	High	3	
4061	Japanese Clinical Practice Guidelines for Rehabilitation in Critically Ill Patients 2023 (J-ReCIP 2023)	2023	J Intensive Care	Unoki	37932849		Mobilisation	1	7	1	
4062	Resistance training combined with β -hydroxy β -methylbutyrate for patients with critical illness: A four-arm, mixed-methods, feasibility randomised controlled trial	2024	Intensive Crit Care Nurs	Wu	38246040		Mobilisation	2	Some concerns	3	
4063	Effects of prone positioning on ARDS outcomes of trauma and surgical patients: a systematic review and meta-analysis	2023	BMC Pulm Med	Phoophiboon	38093216		Prone position	1	unclear	2	
4064	Effect of Awake Prone Positioning on Endotracheal Intubation in Patients With COVID-19 and Acute Respiratory Failure: A Randomized Clinical Trial	2022	JAMA	Alhazzani	35569448	Duplicate	Prone position	2	Some concerns	2	cross reference-->2002
4065	Prevention of muscle atrophy in ICU patients without nerve injury by neuromuscular electrical stimulation: a randomized controlled study	2022	BMC Musculoskelet Disord	Bao	35974369		NMES	2	Some concerns	3	
4066	Awake prone positioning for non-intubated patients with COVID-19-related acute hypoxic respiratory failure: a systematic review based on eight high-quality randomized controlled trials	2023	BMC Infect Dis	Cao	37337193		Prone position	1	Low	1	
4067	Structured Mobilization for Critically Ill Patients: A Pragmatic Cluster-randomized Trial	2023	Am J Respir Crit Care Med	Schweickert	36996413		Mobilisation	2	Some concerns	3	
4068	Prone position ventilation for the relief of acute respiratory distress syndrome through improved pulmonary ventilation: Efficacy and safety	2024	Nurs Crit Care	Liao	37449855		Prone position	1	Low	1	
4069	Early goal-directed mobilization in patients with acute type A aortic dissection: A randomized controlled trial	2023	Clin Rehabil	Lin	37070198		Mobilisation	2	Some concerns	2	
4070	Effect of neuromuscular electrical stimulation combined with early rehabilitation therapy on mechanically ventilated patients: a prospective randomized controlled study	2023	BMC Pulm Med	Liu	37480065		NMES	2	High	3	
4071	Effects of non-pharmacologic prevention on delirium in critically ill patients: A network meta-analysis	2023	Nurs Crit Care	Matsuura	35624556	Duplicate	Mobilisation	1			cross reference-->2115
4072	Strategies to preventing pressure injuries among intensive care unit patients mechanically ventilated in prone position: a systematic review and a Delphi Study	2023	Front Med (Lausanne)	Wang	37644983	not PICO	Prone position	1			
4073	Should New Data on Rehabilitation Interventions in Critically Ill Patients Change Clinical Practice? Updated Meta-Analysis of Randomized Controlled Trials	2024	Crit Care Med	Jiroutková K, Duška F, Waldauf P	38501932		Mobilisation	1	Low	1	
4074	Prone Positioning During Extracorporeal Membrane Oxygenation in Patients With Severe ARDS: The PRONECMO Randomized Clinical Trial	2024	JAMA	Schmidt	38038395		Prone position	2	Low	2	

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